

Region 8



64429

Release in Fall

108-025-08 ENFORCEMENT ACTION FILES
207b UIC - EAST POPLAR OIL FIELD ENFORCEMEN
SDWA SEC. 1431
Folder ID: 64429 1981 Privileged



Region 8
64429



ENGINEERING WELL FILE

BUCKLES & B-1
TXO
ROOSEVELT CO., MONTANA

TXO-176



10-15.

MAR02-0176

MAR-176

CIRCULATING A. F. E.

Please Process and Keep Moving

Route		Initial
	Rutledge	
1	Canfield	<i>CR</i>
	Morgan, J.	
2	Carter, A.	<i>AC</i>
4	Hoglund	<i>SH</i>
5	Hutchison	<i>HC</i>
	Marr	
	DeRosia	
3	Benson	<i>LB</i>
6	Nuttall	<i>BN</i>
7	F. Roberts	<i>FR</i>
	Engineering	<i>KG</i>
9/10	File	

7-31

Little
no

MAR02-0177

MAR-177

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date July 22, 1981

To: A. D. Carter, Jr. - Dallas

From: R. G. Becker - Billings

Operations Package

Re: Buckles "B" #1

East Poplar Prospect

Roosevelt County, Montana

Attached for your approval is the operations package for the Buckles "B" #1. This 6000' well should gain + 10 feet of structure over the recently drilled TXO Buckles "A" #1 and the 1970 Mesa Biere #1-22 in the Charles "C" porosity zone. The Mesa well, 4000' southwest of the proposed location, has flowed over 160 MBO along with a recorded 1.6 MBW. We estimate actual water production in excess of 6 MBW. Our Buckles "A" #1, 2000' southwest of the proposed location, gained three feet over the Mesa well at the top of the Charles, but was 2' low to the Mesa well in the porosity. Our latest test on the Buckles "A" #1 is 25 BOPD and 1065 BWPD at 450# FTP.

As shown on the attached maps, well control indicates about 10' of anticipated structure. Also attached is an overlay using seismic data acquired last week. It supports the anticipated structural advantage, predicting up to 30' of gain over Mesa's well.

Predicted economics, assuming 5' of structural gain and 25¢/Bbl water disposal costs into our existing water disposal well, are:

Drilling & Completion Costs	\$608,000
TXO Working Interest	100%
TXO Net Revenue Interest	83.33%
Gross Reserves	125 MBO #1
Initial Rate	50 BOPD, 1000 BWPD
Initial Oil Price	\$32.00
Success Probability Factor	80%
ROI	3.3:1
ROR	48%
Payout	28.4 months
Lease Costs	\$104,000

R. G. B.

MAR02-0178

MAR-178

RGB/blj
Attachments

*Drill
OK
7-28-81*

RECOMMENDATION MEMO

Date: July 21, 1981 Prospect Name: East Poplar
Recommended by: M. B. Walen Location: Sec. 22 Twp 28N Rge 51E
Well Name: Buckles "B" #1 County: Roosevelt State: Montana
Depth: 6000'
Primary Objective Zone: Charles "C" Oil X Gas

Reserves & Economics

Estimated Reserves: MMCF 125 MBO SPF: 80%

Reserve Method: Decline Curves

Reserve Parameters: A: Bg:
h: RF:
φ: Sw:

Economic Evaluation: Price: \$32.00/bbl
DCFROR: 48%
ROI: 3.3:1
Payback: 28.4 mos.

Pipeline Delay: None Rate: -

Well Cost: P&A	<u>\$355,000</u>	TXO Net	<u>\$355,000</u>
Completed	<u>\$608,000</u>	TXO Net	<u>\$608,000</u>

Land

	<u>BPO</u>	<u>APO</u>
TXO Working Interest:	<u>100 %</u>	<u>100 %</u>
TXO Net Revenue Interest:	<u>83.33 %</u>	<u>83.33 %</u>
Land Cost: <u>\$104,000</u> Acres: <u>80</u> Gross <u>80</u> Net		

Comments:

Market: Marathon Distance to Pipeline Truck

Special Obligations:

Remarks:

MAR02-0179

Signed: M. B. Walen MAR-179

Project Name: Buckles B #1
 Prepared By: RGB
 Date: July 10, 1981

TXO INVESTMENT APPRAISAL PROCEDURE
 Discounted Cash Flow (DCF) Worksheet
 (Volume in MBO; Amounts in M\$)

Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PERIOD	Gross Volume Unit/Year	Net Volume Unit/Year	REVENUE Price \$/Unit	Revenue	CASH OPERATING EXPENSES					X .91 CASH OPERATING REVENUE	CAPITAL OUTLAYS	NET CASH FLOW	PRESENT VALUE AT <u>40</u> %	PRESENT VALUE AT <u>50</u> %	PRESENT VALUE AT <u> </u> %
					Tax	Variable G&A Expense	Other	Fixed	Total						
0											826	(826)	(826)	(826)	
1	18.3	15.2	32.00	488.0	13.9	1.0		100	114.9	339.5	6	333.5	281.9		
2	17.4	14.5	35.00	507.1	14.5	1.0		105	120.5	351.8		351.8	212.4		
3	16.5	13.8	40.00	551.0	15.7	1.0		110	126.7	386.1		386.1	166.5		
4	15.7	13.1		522.5	14.9	1.0		116	131.9	355.4		355.4	109.5		
5	14.1	11.8		471.0	13.4	0.7			130.1	310.2		310.2	68.2		
6	12.0	10.0		400.0	11.4	0.7			128.1	247.4		247.4	38.9		
7	10.2	8.5		340.0	9.7	0.5			126.2	194.6		194.6	21.8		
8	8.7	7.2		288.0	8.2	0.4			124.6	148.7		148.7	11.9		
9	7.4	6.2		248.0	7.1	0.4			123.5	113.3		113.3	6.5		
10	4.7	3.9	✓	156.0	4.4	0.3		✓	56.0	91.0	(56)	147.0	6.0		
TOTAL	125.0									2538.0	776		97.6	-31.7	

Memo:

TXO Net Interest = 83.33%
 Tax Rate = .028% sev, 9% NPT
 G&A Expense Rate = \$.06/MBO
 Other Variable Expense (Define):
 Fixed is composed of:

- a. OPEX
- b. SWD
- c.

Total Fixed Expense

DCF RATE OF RETURN = 48 PERCENT
 ROI = 3.3:1
 PAYBACK = 28.4 MONTHS

\$ Amount
 10M\$/Yr.
 250/Bbl x 1000 B/D
100 M\$/Yr., CSC 5%

List Initial Capital Outlays:

Drilling	355
Completion	153
Prod. Equipment	100
Acquisition	104
Subtotal Initial Capital Outlays:	<u>712</u>

List Additional Capital Outlays: SPF 80% 114

Less Salvage Value: (50)
 TOTAL CAPITAL OUTLAYS: 776

Working Capital (Invested in Yr.1 & recouped in last year of the project): Average Annual Revenue X Rate = Working Capital Outlay
345 x .018 = 6

MAR02-0180

MAR-180



MONTANA

BUCKLES "B" #1

Sec. 22-T28N-R51E

Roosevelt County

MAR02-0181

MAR-181

I P T A

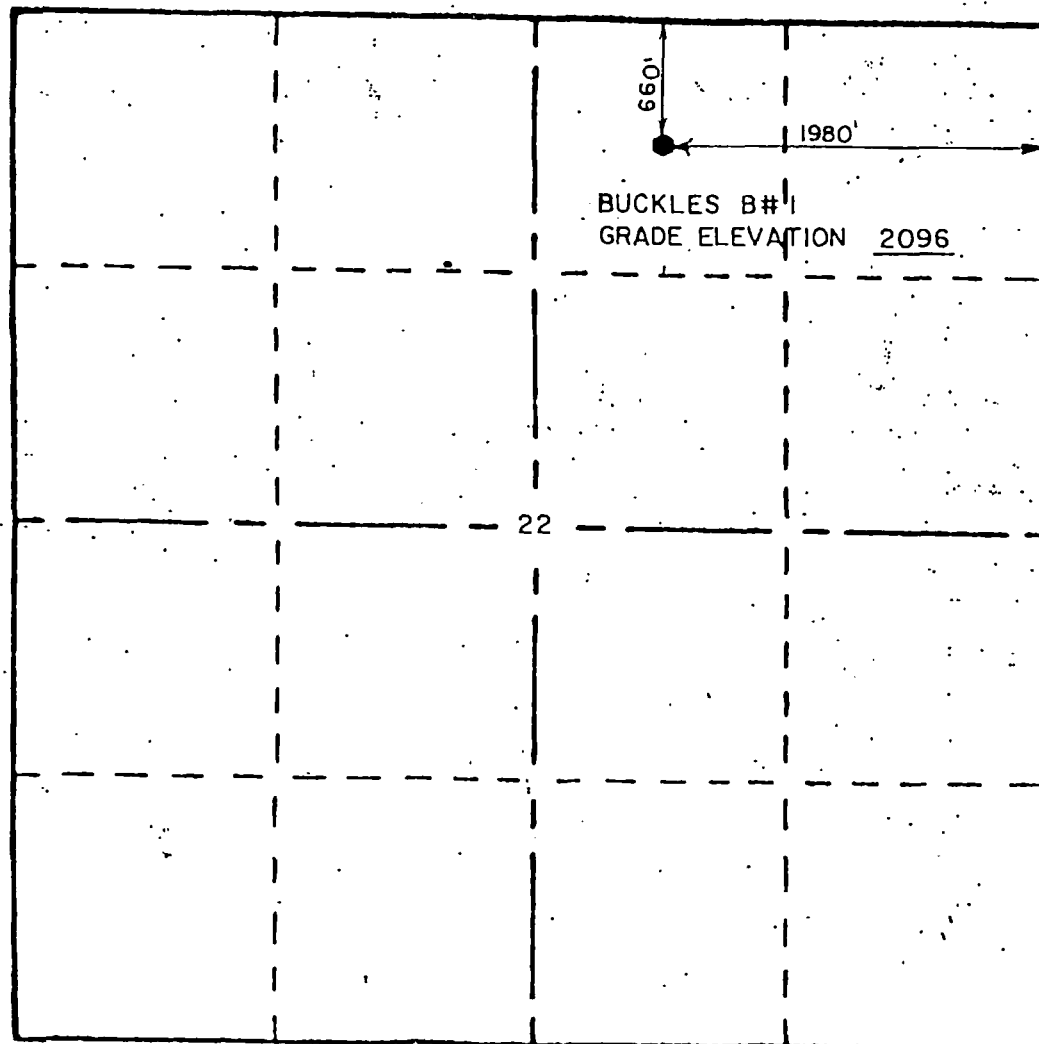
XD-110

T. X. O. PRODUCTION CORPORATION

LOCATION AND ELEVATION PLAT

NW NE. SECTION 22, T 28 N, R 51 E
ROOSEVELT COUNTY, MONTANA

R 51 E



N



SCALE: 1" = 1000'

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

OCT 2 1981

Grade Elevation at well is 2096.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well ☒ gas well ☐ other ☐ JUL 13 1981
2. NAME OF OPERATOR Billings, Montana
Texas Oil & Gas Corp.
3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Ave., Billings, MT 59102
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL, 1980' FEL.
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Change Plans	<input type="checkbox"/>		<input type="checkbox"/>

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following change is made in the subsurface plan (9-331C Addendum) of the APD packages:

9. ABNORMAL CONDITIONS:

B. Trace amounts of H₂S gas may be encountered in association with Charles River Formation oil. In the event hazardous concentrations are encountered, an H₂S safety program, consistent with industry standards, will be implemented. The program would include such features as signs, use of respirators, proper detection systems, etc.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Leo Heath TITLE Project Engineer DATE July 9, 1981

(This space for Federal or State office use)
APPROVED BY Charles E. Currier ACTING DISTRICT SUPERVISOR DATE 7/20/81
CONDITIONS OF APPROVAL IF ANY:

5. LEASE FT. PECK AL.
14-20-0256-5439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles "B"
9. WELL NO.
#1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T18N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

MAR02-0183

MAR-183

(SUBMIT IN QUADRUPLICATE)

TO .

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA.

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

STATE OF MONT.
BILLINGS

Notice of Intention to Drill	XX	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

AMOUNT RECEIVED \$2500

CHECK NO. 69361

DATE 10/1/8

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 7 1981

Following is a { notice of intention to do work { on land { owned { described as follows:
report of work done { leased {

LEASE.....Buckles.....!!R!!

MONTANA
(State)

Roosevelt

E. Poplar

.....
(County)

.....
(Field)

Well No. 1 CNWNE Sec. 22 T28N R51E MPM
(m. sec.) (Township) (Range) (Meridian)

The well is located 660 ft. from ~~XS~~ ^N line and 1980 ft. from ~~XS~~ ^E line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106' GL.

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Cores Required if Taken
NO drill cutting samples required

1. Drill 12 1/4" hole to + 1200'. Set 8 5/8", 24#, K-55 casing and cement to surface.
2. Drill 7 7/8" hole to + 6000'. Log, evaluate, and if warranted, set 5 1/2" 15.5# & 17#, K-55 casing at + 6000' and cement to above the Dakota formation in one stage.
3. Perforate Mission Canyon and complete as a single oil well. If necessary, stimulate with 500 gallons 15% HCL acid.

FILING WITH THE COMMISSION ALL LOGS,
 REPORTS, SURVEYS, AND ANALYSES MADE
 OR RUN IS REQUIRED IN ACCORDANCE WITH
 RULE NO. 230.

SALTWATER PITS SHALL BE IMPERMEABLE

Approved subject to conditions on reverse of form

Date.....JUL 16 1981

By CHARLES G. MAIO, Petroleum Geologist
District Office Agent

Company Texas Oil & Gas Corp.

By

Title.....Drilling Engineer.....

2705 Montana Ave., Suite 300

AddressBillings, Montana.....59101

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM
APPROVAL IF WELL NOT SPUNDED OR EXTENSION REQUESTED

OVER

MAR-184

MAR02-0184

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Texas Oil & Gas Corp.
3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Ave., Billings, MT 59102
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL, 1980' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF ☐ ☐
FRACTURE TREAT ☐ ☐
SHOOT OR ACIDIZE ☐ ☐
REPAIR WELL ☐ ☐
PULL OR ALTER CASING ☐ ☐
MULTIPLE COMPLETE ☐ ☐
CHANGE ZONES ☐ ☐
ABANDON* ☐ ☐
(other) Setting surface casing xx

5. LEASE FT PECK AL.
14-20-0256-5439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles "B"
9. WELL NO.
#1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T18N-R51E
12. COUNTY OR PARISH 13. STATE
Roosevelt Montana
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled 12 1/4" hole to 1206' KB. Ran 26 jts 8 5/8", 24#, K-55, ST&C casing, set @ 1146', with Lynes ECP packer @ 684'. Cemented to surface w/760 sx Class "G" and set packer.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Leo A. Heath TITLE Project Engineer DATE August 14, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

MAR02-0185

MAR-185

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY SEP 4 1981

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well

2. NAME OF OPERATOR
Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR 59101
2705 Montana Avenue, Ste 300, Billings, MT

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

660' FNL, 1980' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT ☐

(other) Setting production casing XX

5. LEASE FT PECK AL
14-20-0256-5439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Buckles 'B'

9. WELL NO.
#1

10. FIELD OR WILDCAT NAME
East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22-T18N-R51E

12. COUNTY OR PARISH 13. STATE
Roosevelt Montana

14. API NO.
Z-22-18-51

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

U.S. Geological Survey
RECEIVED
AUG 27 1981
Billings, Montana

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 7 7/8" hole to 5913'. Ran DLL-MSF log from 5905' - 1178' (loggers measurements) and CNL-FDC Log from 5905' - 4600'. Ran and set 141 jts 4 1/2" 10.5# & 11.6#, K-55, ST&C casing at 5913' with float collar at 5864' and stage cementing collar at 5398'. - Cemented with 485 sacks 65/35 pozmix cement and 225 class 'G' cement in two stages. Released rig 8:00 a.m. 8-24-81.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Kagle TITLE Drilling Engineer DATE August 24, 1981

(This space for Federal or State office use)
APPROVED BY Charles E. Lusk ACTING DISTRICT SUPERVISOR DATE 9/3/81
CONDITIONS OF APPROVAL IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

U. S. Geological Survey

Suite 300, 2705 Montana Avenue, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface
660' FNL, 1980' FEL

At proposed prod. zone

JUN 22 1981

Billings, Montana

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0256-5439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Buckles "B"

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

East Poplar Field

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 22-T28N-R51E

12. STATE

Montana

14. DIST

Appl

15. DIST
LOC
PRO
(A)16. DIST
TO
OR

21. ELEV

210

23.

1. Reserve pit will be lined.
2. In case of dry hole, all restoration will be completed within 60 days.
3. In case of production, all disturbed areas not needed for production will be restored within 60 days.
4. Topsoil will be piled separately and not used for other purposes.
5. Access road will be from the south and joining existing road at A-1 site.
6. Archeological clearance is not needed in this area.

WORK WILL START
1981

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24# New	1200'	Circulate to surface
7 7/8"	5 1/2"	15 5# & 17#	6000'	700 sacks

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Ron Becker by LAM

TITLE

Project Manager

DATE

6-22-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Charles E. Lusk

TITLE

ACTING DISTRICT SUPERVISOR

DATE

7/13/81

CONDITIONS OF APPROVAL, IF ANY: SEE ATTACHED

ANY FLARING OR VENTING OF
GAS SUBJECT TO NTL 4-A
DATED 1/1/80

MAR02-0187

MAR-187

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company _____ Well No. _____

Location _____ Lease No. _____

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended for more than 30 days, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Engineer must be notified at least 48 hours in advance of the plugging of the well, in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a

6. You or your authorized representative should inspect the abandoned location prior to notification to this office by form 9-331 that it is ready for inspection, and note especially:

- (a) That the regulation dry-hole marker bears the correct legend as required in item 3.
- (b) That rathole and mousehole are filled, not just bridged, and pits are filled and leveled.
- (c) That all material and junk are gone. This includes deadmen protruding above the level ground surface.
- (d) That reseedling or other required restoration work has been completed.

7. The U.S. Geological Survey district office address is:

Conservation Division, P.O. Box 2550, Billings, MT 59103

		Phone 657-6367
Dist. Engr.	Thomas P. Richmond	Home Phone 656-0357
Asst. Engr.		Home Phone

8. The BLM contact man is:

Phone (home)
Phone (office)

MAR02-0189

MAR-189

The U. S. Geological Survey District office address and contacts are:

Address: Conservation Division, P.O. Box 2550, Billings, MT 59103

Office Phone: 657-6367

District Engineer Thomas P. Richmond

Home Phone: 656-0357

Asst. Dist. Engineer _____

Home Phone: _____

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil, and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed for prior approval of the District Engineer, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Engineer's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact the Surface Management Agency 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, future operations will require a new application be filed for approval.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. _____

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

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follow-up report on form 9-331 should be filed when all surface restoration work has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the District Engineer within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Engineer's office on a frequency and form or method as may be acceptable to the District Engineer.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed in duplicate directly with the U. S. Geological Survey Area office, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Engineer. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6 and prior approval by the District Engineer.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify this office and the Surface Management Agency at least 24 hours prior to commencing field operations to allow this office and/or the Surface Management Agency office to have personnel present for consultation during the construction of roads and locations.

The Surface Management Agency contact is: _____
Office Phone: _____, Home Phone: _____
City: _____, State: _____

MAR02-0191

CONDITIONS OF APPROVAL FOR WELL ABANDONMENT

Company _____ Location _____
Well No. _____ Lease No. _____

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

1. This office should be notified sufficiently in advance of actual plugging work so that a representative may have an opportunity to witness the operation.
2. Upon completion of approved plugging, erect the regulation marker in accordance with 30 CFR 221.22 and clean up the location. The marker should not be less than 4 inches in diameter and extend approximately 4 feet above general ground level. Heap up the dirt around the base of the marker about 18 inches to take care of any settling of the cellar. The top of the marker must be closed or capped. Pits must be fenced unless approved otherwise by the District Engineer.
3. The following minimum information shall be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

"Fed" or "Ind", as applicable.
"Well number, location by $\frac{1}{4}$ $\frac{1}{4}$ section, township and range."
4. Within 15 days after well bore plugging operations are completed, form 9-331 (Subsequent Report of Abandonment) must be filed showing location of plugs, amount of cement in each, amount of casing left in hole, and status of surface restoration. If a temporary delay in removal of equipment or surface cleanup is deemed necessary and acceptable to this office, so note on this report and notify this office when such work has been completed to your satisfaction. This final abandonment report will not be approved until a physical inspection by this office and the surface management agency finds the well site in satisfactory condition.
5. If not previously filed, submit in duplicate Well Completion or Recompletion Report and Log (form 9-330), well history, electric logs, and other surveys, and if taken, core analysis and water analysis. These reports must also be filed within 15 days after completion of plugging operations.

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9-331 C ADDENDUM
Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

1. SURFACE FORMATION: Bear Paw

2. ESTIMATED FORMATION TOPS:

Judith River	730'	Tyler	4880'
Eagle	1180'	Otter	5032'
Muddy	2978'	Kibbey Sand	5194'
Dakota	3236'	Kibbey Lime	5828'
Swift	3694'	Charles	5486'
Bierdon	4142'	Charles A	5556'
Piper	4801'	Charles B	5674'
Amsden	4748'	Charles C	5826'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River	Brackish Water
Muddy	Salt Water
Dakota	Salt Water
Kibby	Salt Water
Charles	Oil

4. CASING PROGRAM AS PER FORM 9-331 C.

5. PRESSURE CONTROL EQUIPMENT:

- A. After surface casing is set, a standard two-preventer system will be utilized.
- B. The BOP equipment will be pressure-tested to 1,500 psi before drilling surface pipe cement, and will be tested for operation daily and during trips.
- C. A diagram of the proposed installation. See Exhibit 1.

6. MUD PROGRAM;

0'	-	600'	Water
600'	-	4000'	Salt Water
4000'	-	TD	Saturated Salt Gel

7. AUXILIARY EQUIPMENT:

- A. A kelly cock will be kept in the string at all times.
- B. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string, as necessary.

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C. A gas-detecting device hot wire will be used from 3,000' to TD.

D. A desander and/or desilter will be utilized as required.

8. CORING, LOGGING, TESTING PROGRAM:

A. No coring is anticipated.

B. Possible DST in the Charles C.

C. Dual laterolog-base surface casing to T.D.

D. FDC-CNL-GR-COL - Tyler formation to T.D.

9. ABNORMAL CONDITIONS:

A. No abnormal pressures or temperatures are expected.

B. No hazardous gases such as H₂S are expected.

C. Hole sloughing and washouts may be experienced in salt sections below 4,000'.
Appropriate control measures will be exercised.

10. ANTICIPATED STARTING DATES:

Start location construction	July 10, 1981
Spud	July 15, 1981
Complete Drilling	August 5, 1981
Completed, ready for production	September 15, 1981

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging.

MAR02-0194

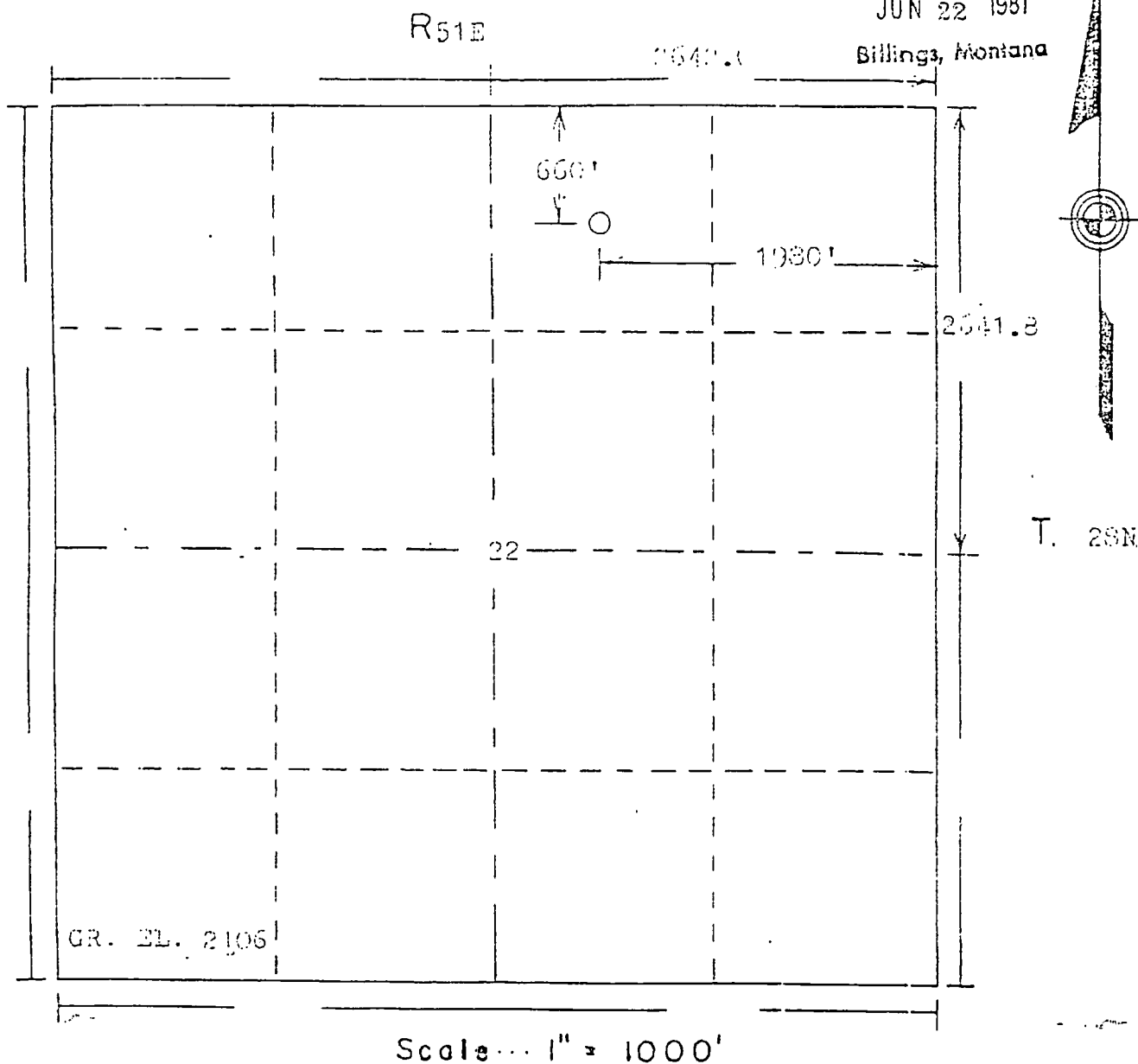
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Powers Elevation of Denver, Colorado
 has in accordance with a request from Charlie Curlee
 for Texas Oil & Gas Corp.
 determined the location of Buckles B/1
 to be 660' in & 1930' to Section 22 Township 28N
 Range 51E of the Montana Principal Meridian
 Roosevelt County, Montana

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 Buckles B/1

MAR02-0195

Date: _____

Licensed Land Surveyor No. 21
 State of Montana

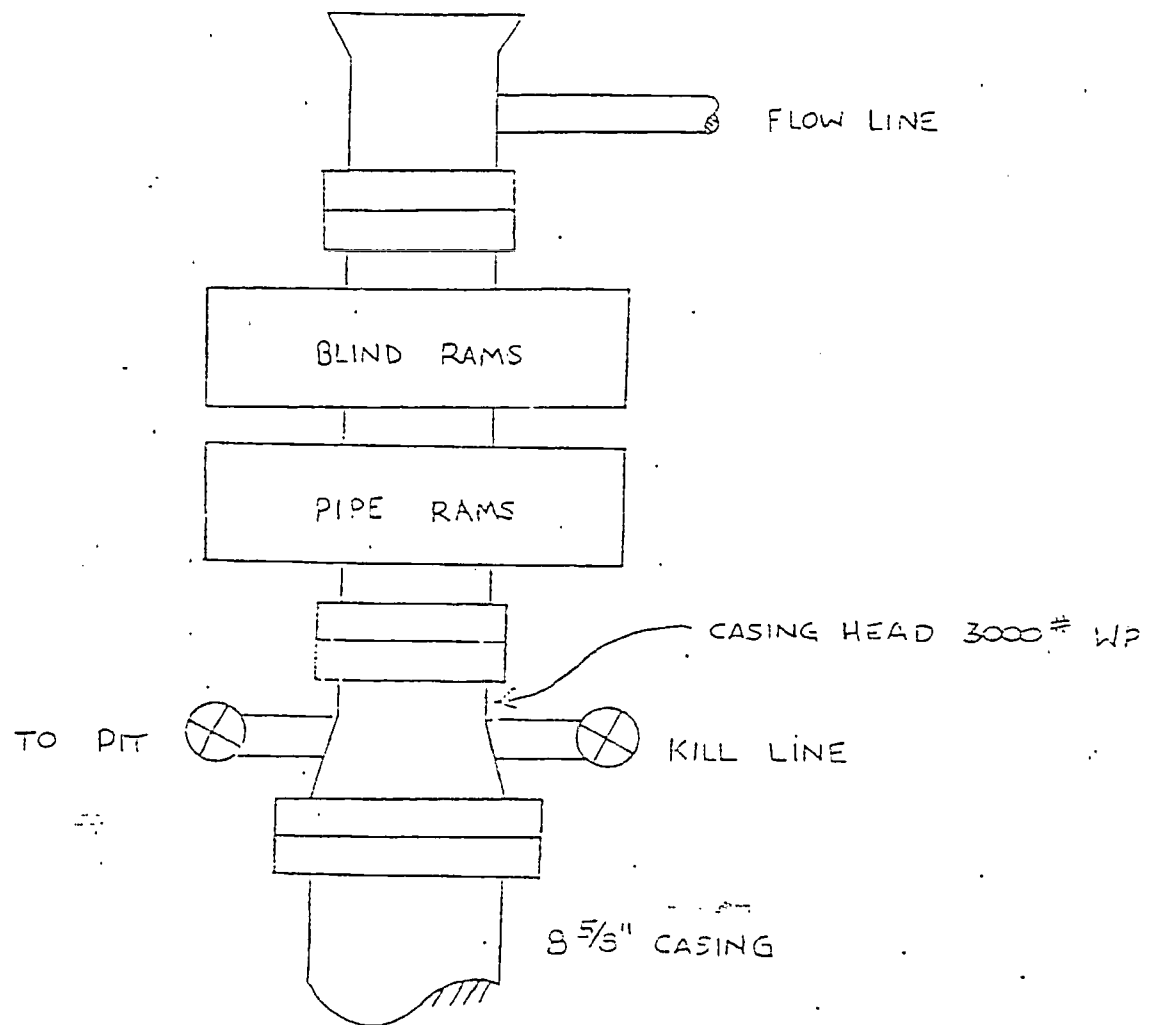
MAR-195

Exhibit 2
 Survey Plat

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BLOWOUT PREVENTER SCHEMATIC
FOR MUD DRILLING

MAR02-0196

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Exhibit 1
Blowout Preventer

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TEXAS OIL & GAS CORP.
MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: June 18, 1981

WELL NAME: Buckles "B" #1

LOCATION: 660' FNL, 1980' FEL, Section 22-T28N-R51E, Roosevelt Co., Montana

1. EXISTING ROADS

- A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 660' FNL and 1980' FEL of Section 22-T28N-R51E.
- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5 miles to Flaxville blacktop road. Turn north, proceed 4.0 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for 1 mile to an intersection. Turn right and proceed 0.62 miles to the proposed access road.
- C. Access route to location color coded in red and labeled. Refer to Exhibit 3.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 4.
- E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required to control dust.

2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.1 mile long will be constructed from the north section line of Section 22-T28N-R51E. The road will proceed due south to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage. See Exhibit 5.

3. LOCATION OF EXISTING WELLS

Exhibit 6 is a one-mile radius locating and identifying the following:

- A. Water Wells - None
- B. Abandoned Wells - Murphy Oil Unit #72, Sec. 22-T28N-R51E

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- C. Temporarily Abandoned Wells - None
- D. Disposal Wells - None
- E. Drilling Wells - None
- F. Producing Wells - Mesa 1-22 Biere, Sec. 22-T28N-R51E
 - Murphy Oil Unit #22, Sec. 14-T28N-R51E
 - Murphy Oil Unit #55, Sec. 23-T28N-R51E
 - Murphy Oil Unit #32, Sec. 15-T28N-R51E
 - TXO Buckles "A" #1, Sec. 22-T28N-R51E
- G. Shut-In Wells - None
- H. Injection Wells - Mesa, Sec. 22-T28N-R51E
 - TXO Buckles "A" #1 Injection Well, Sec. 22-T28N-R51E
- I. Monitoring or Observation Wells for Other Reasons - None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Exhibit 6 is a one-mile radius locating the following existing facilities owned by the lessee/operator:
 - 1. Tank Batteries - Buckles "A" #1, Sec. 22-T28N-R51E
 - 2. Production Facilities - Buckles "A" #1, Sec. 22-T28N-R51E
 - 3. Oil Gathering Lines - None
 - 4. Gas Gathering Lines - None
 - 5. Injection Lines - None
 - 6. Disposal Lines - None
- B. If new facilities are contemplated, in the event of production show:
 - 1. Proposed location and attendant lines in relation to the well pad. Refer to Exhibit 7.
 - 2. Dimensions of facilities. Refer to Exhibit 7.
 - 3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.
 - 4. Protective devices and measures to protect livestock and wildlife: The water production pit will be fenced and flagged to protect animals.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply: Water for drilling purposes will be purchased from a commercial water hauler and hauled from Plentywood, Montana.
- B. Method of transporting water: Water will be transported via truck over the access route described in Section 1B of the MSUOP. No new roads will be required.
- C. If water well is to be drilled, so state: No water well is contemplated.

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Billings, Montana

6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.
- B. Identify if from Federal or Indian Land: The surface is owned by Austin R. Buckles.
- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.
- D. Show any needed access roads crossing Federal or Indian lands. Refer to Exhibit 5.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Cuttings will be separated by screen and gravity and contained in the reserve pit and subsequently covered when the pit is filled.
- B. Drilling fluids to be contained in the reserve pit and allowed to evaporate prior to filling.
- C. Produced fluids will be contained in the reserve pit and allowed to evaporate prior to filling.
- D. Sewage - Portable toilet will be provided.
- E. Garbage will be placed in a trash pit, fenced and covered with a small mesh wire fence for burning and burial after completion of the well.
- F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location. All pits will be filled after drying and all areas restored as under Item #10.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross-section and plan view of drill pad with cuts and fills: Refer to Exhibits 8 and 9.
- B. Location of mud tank, reserve pit, burn pit, trash pit, pipe racks and living facilities: Refer to Exhibit 10.
- C. Rig orientation, parking area: Refer to Exhibit 10.
- D. Statement regarding pit lining: The reserve pit will be lined with plastic for drilling operations.

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10. PLANS FOR RESTORATION OR SURFACE

- A. Backfilling, levelling, contouring and waste disposal: The reserve pit will be backfilled after evaporation or removal of drilling fluids. After backfilling, the pit area will be levelled to the original contour. The mouse and rat holes will be filled. As per Item #7, trash will be burned and buried.
- B. Revegetation and rehabilitation: Upon backfilling of the reserve and mud pits, the disturbed area will be recontoured prior to seeding; previously stockpiled topsoil will be redistributed evenly.
- C. If any oil is on the pit, it will be removed or overhead flagging will be installed.
- D. Timetable for commencement and completion of rehabilitation operations: The entire pad area (if a dry hole) or disturbed areas not needed for production will be recontoured within 60 days, pending drying of reserve pit prior to backfilling. Depending upon weather for rapid seed germination and standing crop, restoration should be final one year after spud date.

11. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a relatively flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River, approximately 2 miles west. The land is under cultivation but is currently fallow. A ridge 0.5 miles runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes small mammals and birds. No endangered species are known to exist in the area.
- B. Other surface-use activities: The surface is privately owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement with Mr. Buckles.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, a number of intermittent streams exist east of the drill site. A ranch house is located approximately 1.0 mile southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

MAR-200

MAR02-0200

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Billings, Montana

Ronald Becker
Leo Heath - 406/656-9917 - Residence
Texas Oil & Gas Corp.
2705 Montana Ave., Suite 300
Billings, Montana 59101
406/248-4330 - Business

13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: 6-22-81

Ronald Becker by L.H.
Ronald Becker
Project Manager

MAR-201

MAR02-0201

အုပ်စုမှတ်တမ်း

SHERIDAN COUNTY
ROOSEVELT COUNTY

SHERIDAN COUNTY
ROOSEVELT COUNTY.

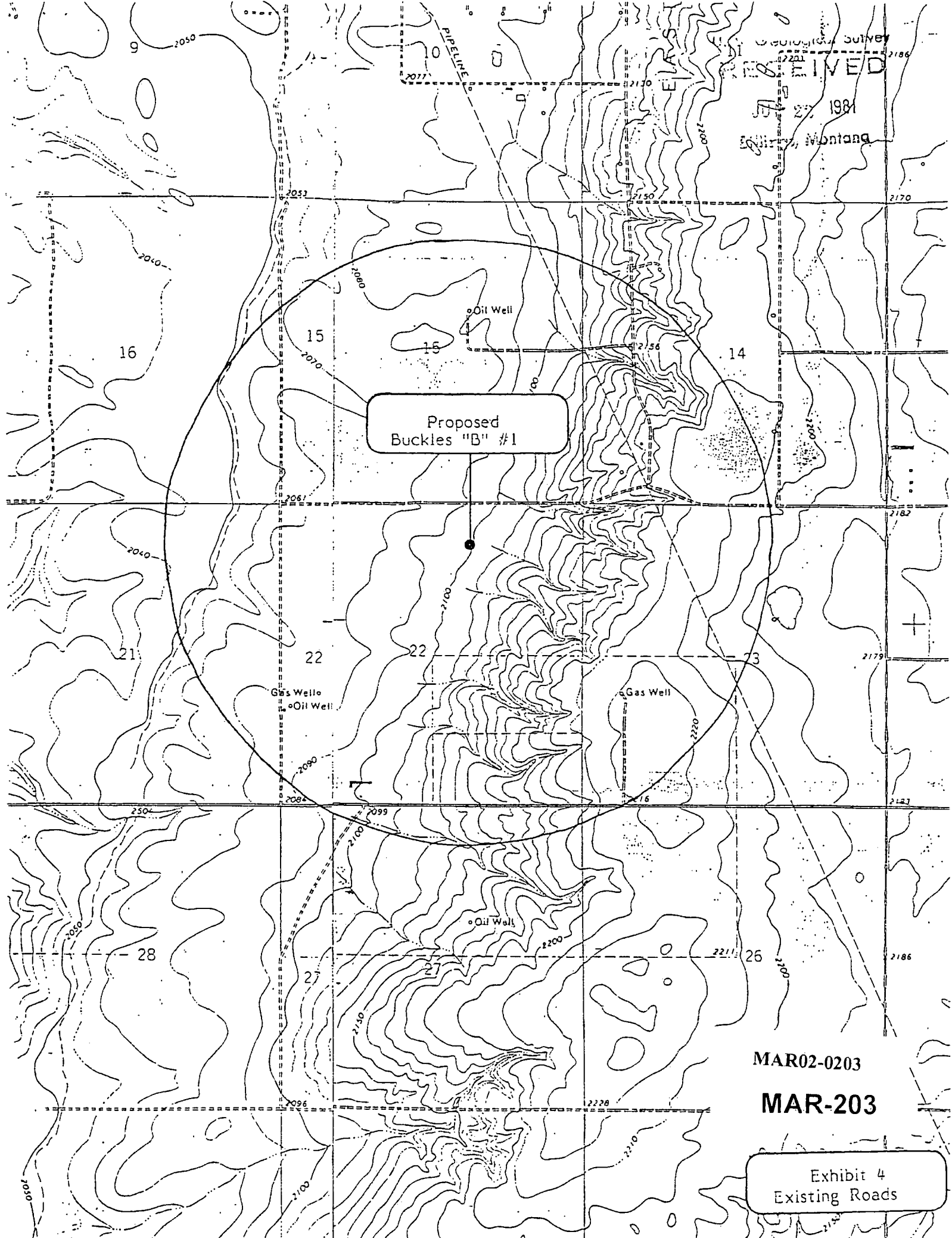
2105 MEDICAL
NATIONAL

REPLY STATE POLICE

MAR02-0202

MAR-202

Exhibit 3
Access Route



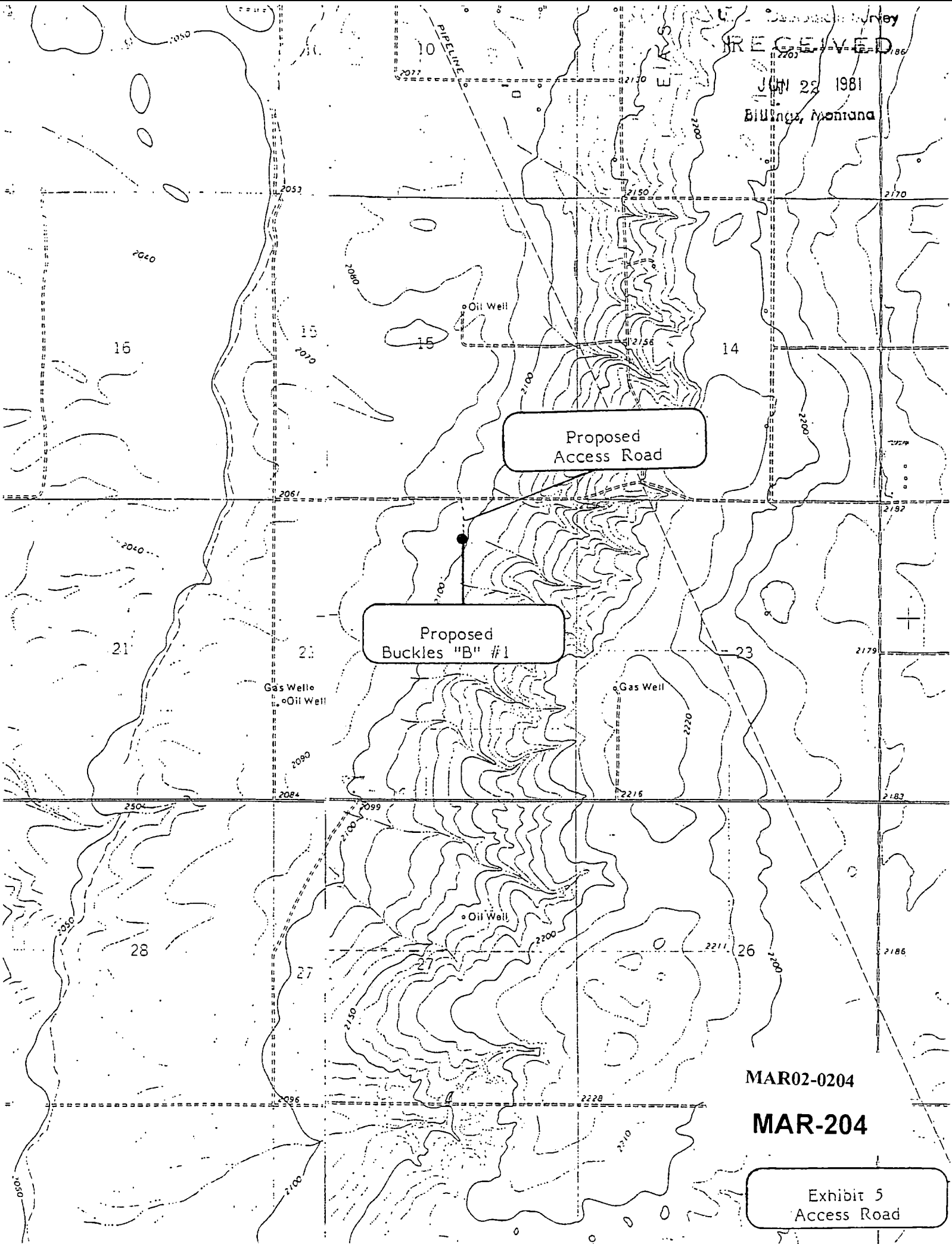
MAR02-0203

MAR-203

Exhibit 4
Existing Roads

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Proposed
Access Road

Proposed
Buckles "B" #1

MAR02-0204

MAR-204

Exhibit 5
Access Road

MURPHY OIL
COMPL 8-25-52
NO TESTS

MURPHY OIL
UNIT #32
COMPL 11-54
IP 41 BOPD
PARO 2 BOPD

MURPHY OIL
UNIT #10
COMPL 11-57
IP 268 BOPD
CUM 356343
PARO 28 BOPD

MURPHY OIL
UNIT #28
COMPL 1953
IP 18 BOPD
CUM 416938 BOPD
PARO 3 BOPD
JUN 22 1981

Billings, Montana

MURPHY OIL
UNIT #10
COMPL 1958
IP 221 BOPD
CUM 344,958 BOPD
PARO 15 BOPD

Proposed
Buckles "A" #2

Buckles "A" #1

Proposed
Buckles "B" #1

MESA 1-22 BIERE
COMPL 5-8-70
IP 516 BOPD
996 BWPD
CUM 158,999 BOPD + 135,016 BW
PARO 15 BOPD + 1160 BWPD (4-80)

JUNIPER

COMPL 3-80
IP 4 BOPD
100 BWPD
CUM 242 BOPD
SHUT-IN

TD 598' K₁
SWD

MURPHY OIL
UNIT #55
COMPL 6-55
IP 198 BOPD
CUM 226,466 BOPD
PARO 6 BOPD

MURPHY OIL
UNIT #26
COMPL 9-53
IP 23 BOPD
CUM 61,779 BOPD
T-4 9-62
P B A 1965

TS 850'

MURPHY OIL
UNIT #72
P B A 4-56
DST MCC-REL 30' GAS
PP 15' IS
50' SD + GCW
SIP 2995

AMARCO RESOURCES
USA 1-27
COMPL 7-73
DST MCC-11
280' HO + GCW, 15% OIL
90' MCSW
(5804-18)

NATOL SIOUX 1-25
COMPL 2-29-70
IP 20 BOPD + 215 BWPD
PROD TEST 3 BOPD
P B A 1971

T51E

MURPHY OIL
UNIT #63
COMPL 2-55
IP 54 BOPD
CUM 5097 BOPD
KIBBEY SD
P B A 1962

PARTEE - CATLIN 1
COMPL 6-13-65
TD'D IN KIBBEY
NO SPL SHOWS
NO TESTS

AJAX OIL CO
PATCH #1
COMPL 8-1952
DST MCC-REC 125' CCM
25' O + WCM
FP: OFF SIP 2925
CORED MCC-1's, SSO

EMPIRE OIL
LOCKMAN #1
P B A 1959
DST MCC-1 REC 300' MUD-
300' SMCS W/
FP 75 - 300'
SIP 2974

MAR-205

EXHIBIT 6
1 Mile Radius

MAR02-0205

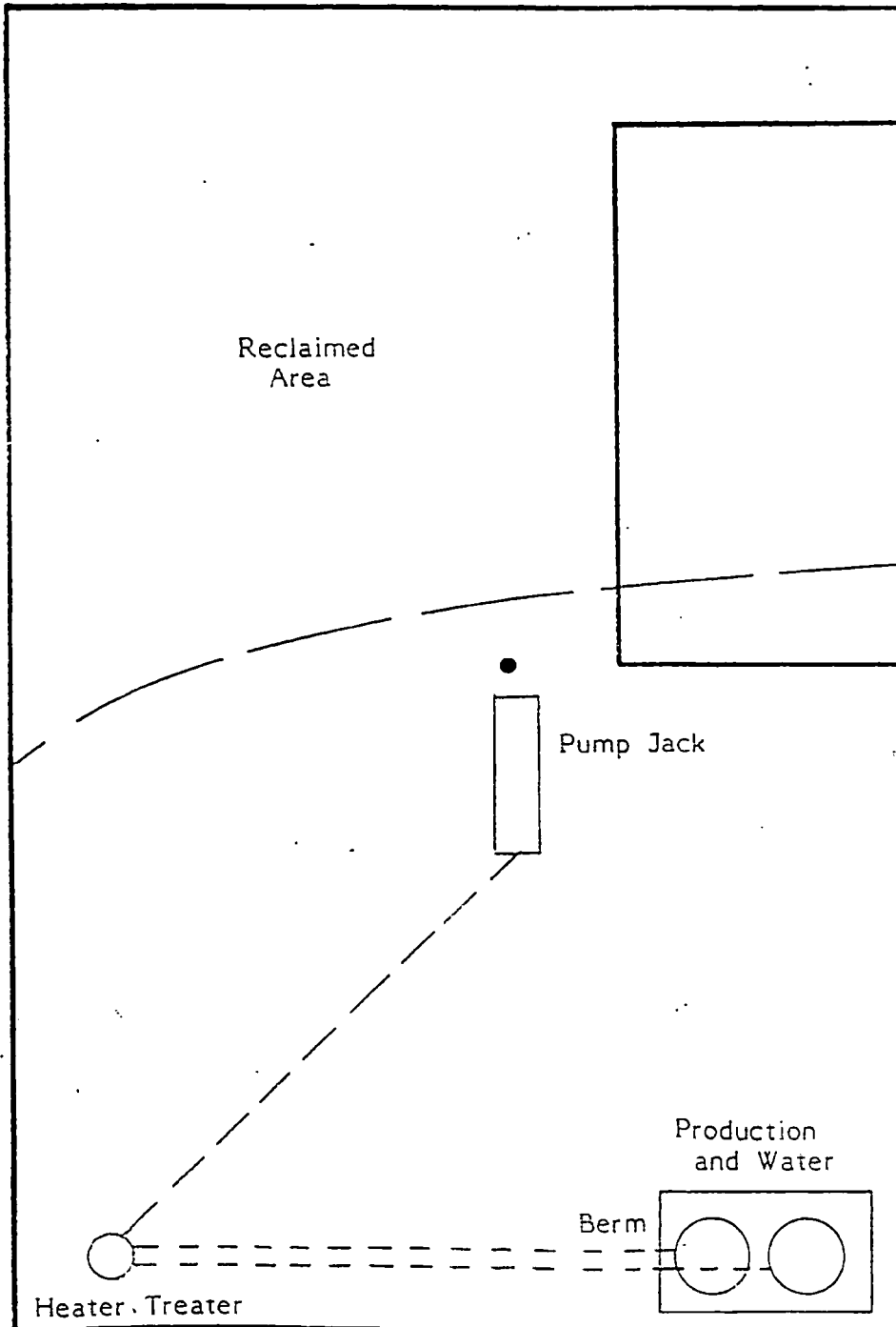
R28N

Texas Oil & Gas Corp.
Buckles "B" #1

Oil Survey
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Billings, Montana



Scale: 1" = 50'



MAR02-0206

MAR-206

Exhibit 7
Production Facilities

Texas Oil & Gas Corp.
Pickles B#1
Sec. 10 & 1920'fe
Sec. 12 T-23N R-11E
Roosevelt Co. Montana

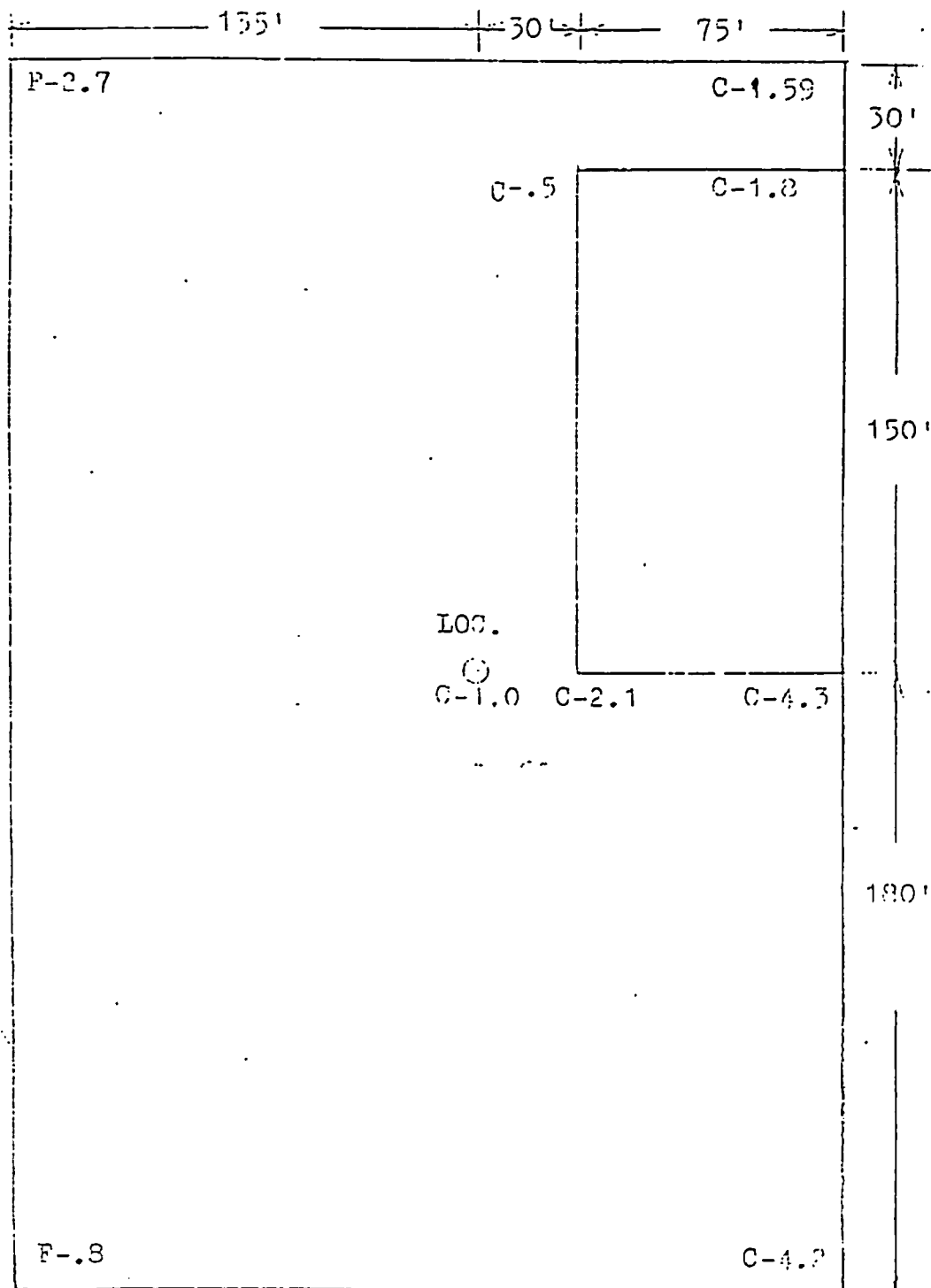
PIT & PAD LAYOUT
1" = 50'

U. S. Geological Survey

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Billings, Montana 2781



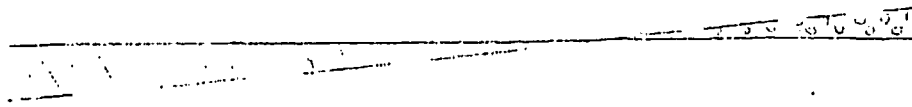
MAR02-0207

MAR-207

Exhibit 3
Cut & Fill

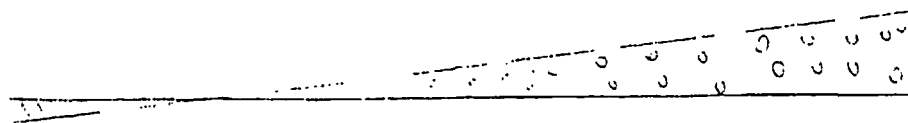
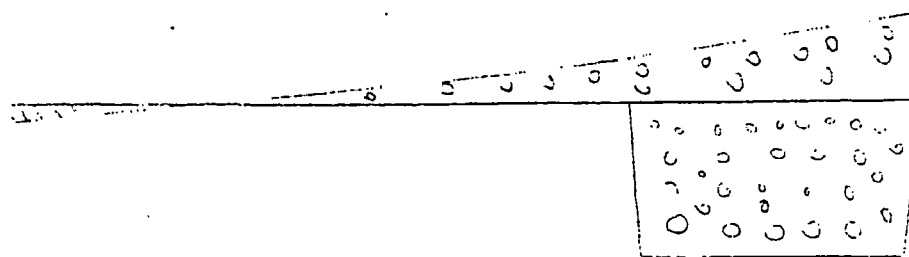
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Scale: 1' = 50' Horizontal
1' = 10' Vertical

Cut 4169 cu. yds.
Fill 1143 cu. yds.
Pit Cut 3332 cu. yds



MAR02-0208

MAR-208

Exhibit 9
Cross Section

Texas Oil & Gas Corp.
Buckles "B" #1

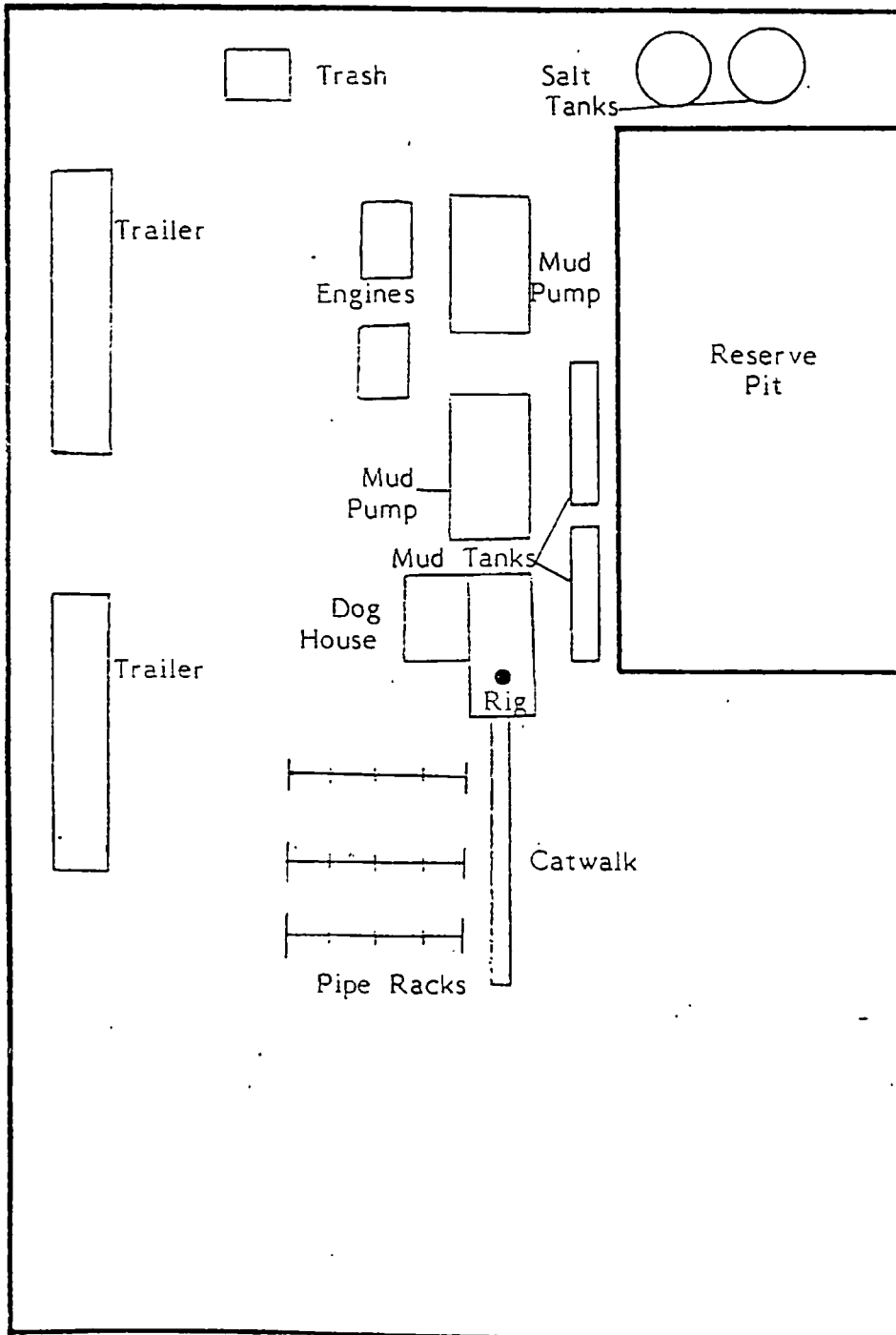
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Billings, Montana

NORTH



Scale: 1" = 50'

MAR02-0209

MAR-209

Exhibit 10
Rig Layout

WELL SERVICING REPORT

LEASE BUCKIES

WELL NO. B-1

AREA BILLINGS, MT.
TEXAS OIL & GAS CORP.
DATE BILLINGS DISTRICT

TYPE JOB _____

PUMP CHANGE _____

ROD _____

TBG. _____

SWAB OCT 14 1981

OTHER _____

REASON FOR JOB NO OIL

DESCRIPTION _____

EQUIPMENT
CONDITION

TRIED THREE (3) SQUEEZE JOBS @ 5806-5808 No Squeeze

PERF @ 5802-5806 - 200 GAL SPEARHEAD No RESULTS -

500 GAL. SPEARHEAD + Apollo 40 + 300# WESTB/DG III, + 9 BALLS. RATE 1.6-3 gal/min

FORMATION BROKE @ 2200# ISDP. 650# Flowing Restriction 1/64 CHOKED

@ 280-300# TANK GAUGE 6'7"

TUBING	NUMBER	SIZE	FEET	
TBG. JTS. _____	<u>186</u>	<u>2 7/8</u>	<u>5735'</u>	<u>GOOD</u>
TBG. SUBS _____	_____	_____	_____	_____
TBG. ANCHOR MAKE & DESC. _____	_____	_____	_____	_____
TBG. BELOW <u>PACKER</u> <u>ANCHOR</u> <u>1 JT. 31.1'</u>	_____	_____	_____	_____
SEATING NIPPLE SET AT _____	_____	_____	_____	_____
PERF. SUB _____	_____	OR SLEEVE _____	_____	_____
MUD ANCHOR OR (TAIL PIPE) <u>1 JT. 31.1</u> <u>5766'</u>	_____	_____	_____	_____
PACKER TYPE <u>BASIN MODEL R</u> <u>10,000# SET ON IT.</u> SET AT <u>5735'</u>	_____	_____	_____	<u>SHOT</u>
TBG. STUNG INTO PKR. _____	_____	OR HANGING FREE _____	_____	_____
TOTAL TBG. <u>187 JTS.</u>	_____	_____	_____	_____
STATE ANY CHANGE MADE IN TBG. STRING <u>10' TUBING NOT RUN No Seat Nipple</u>	_____	_____	_____	_____

RODS	NUMBER	SIZE	FEET	
ROD _____	_____	_____	_____	_____
ROD _____	_____	_____	_____	_____
ROD _____	_____	_____	_____	_____
ROD SUB _____	_____	_____	_____	_____
ROD SUB _____	_____	_____	_____	_____
POLISH ROD _____	_____	_____	_____	_____
TOTAL RODS _____	_____	_____	_____	_____
STATE ANY CHANGE IN ROD STRING _____	_____	_____	_____	_____

PUMP	
PUMP TYPE _____	_____
TYPE HOLD DOWN OR ANCHOR _____	_____
CONDITION OF PUMP PULLED _____	_____
STATE ANY CHANGE MADE IN PUMP _____	_____

MAR02-0230

WELL SERVICE CONTRACTOR:	HRS. ON JOB
ESTIMATED COST OF JOB _____	\$ _____
REMARKS _____	_____

MAR-230

REPORTED BY W. Dyer



ASTRO-CHEM SERVICE

well file

Post Office Box 972
Williston, North Dakota 58801
Phone (701) 572-7355

September 22, 1981

TXO Production Corp.
2705 Montana Ave.
Suite 300
Billings, MT. 59101
ATTN: Leo Heath

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 28 1981

Dear Sir:

The results of the analysis requested on your water sample received September 18, 1981, are as follows:

Sample	pH	Specific Gravity @ 77° F	Resistivity @ 77° F	Chloride	Sodium Chloride *
Buckles B-1	6.31	1.040	0.01 ohm-meters	36,965	60,936

* Calculated from the Chloride Value

These results were telephoned to your office September 21, 1981.

Thank you.

Sincerely,

Deborah A. Stevens

Deborah A. Stevens
Astro-Chem Lab.

DAS:jb
M-81-5033

MAR02-0231

MAR-231

INTERSTATE ENGINEERING, "INC."
P. O. Box 648
SIDNEY, MONTANA 59270

LETTER OF TRANSMITTAL

(406) 482-5617

TO T.X.O. Production Corporation
2705 Montana Ave., Suite 300
Billings, MT 59101

DATE 10/8/81	JOB NO. 81-2-247
ATTENTION Leo Heath	
RE: Section 22, T28N, R51E in Roosevelt County, Montana	

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

- ☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
3	10/8/81		Buckles B#1, A, and Mesa Petrol oil well grade elevations
			TEXAS OIL & GAS CORP.
			BILLINGS DISTRICT
			OCT 9 1981

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Enclosed find 3 copies of plat showing requested grade elevations of
Buckles B#1, Buckles A, and Mesa Petrol oil wells. Thanks.

MAR02-0232

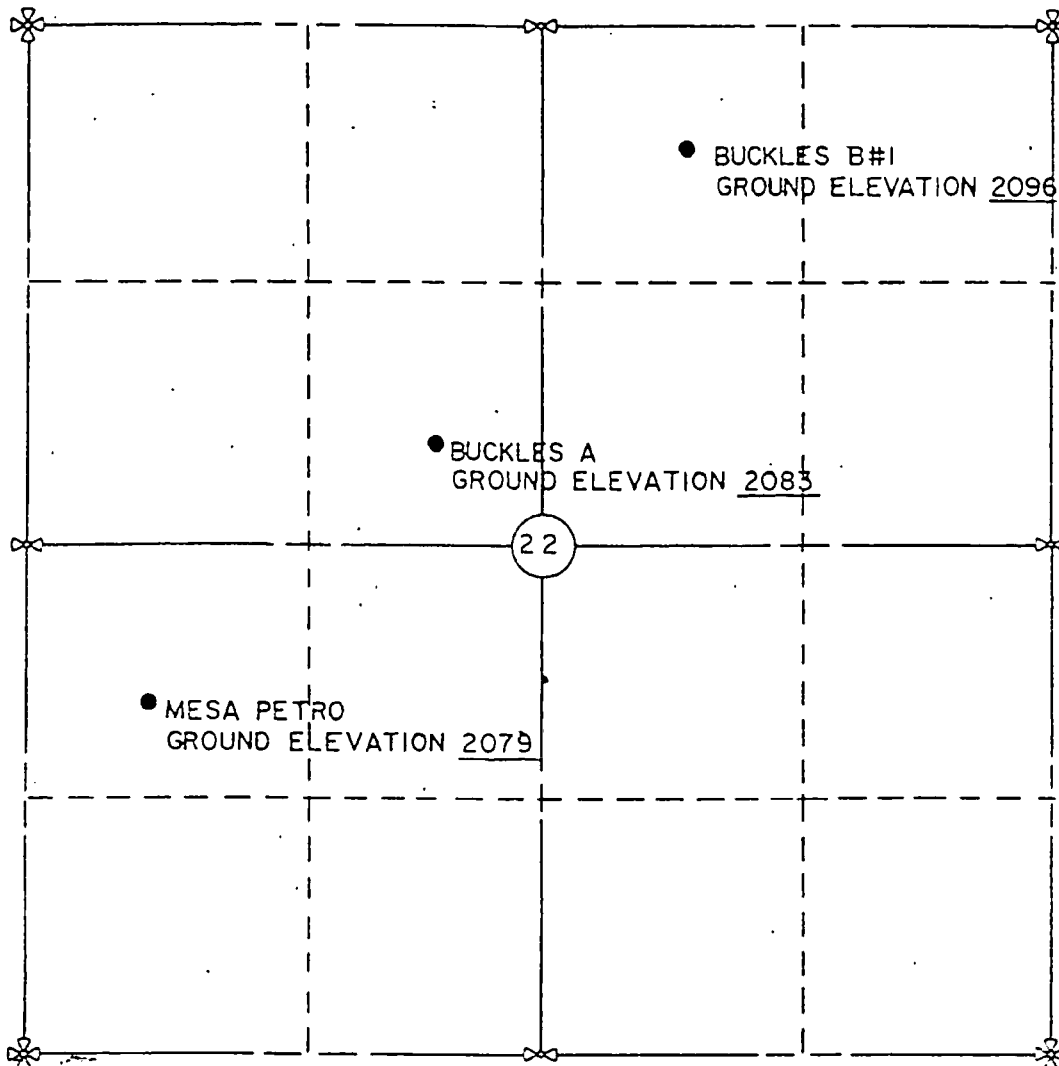
MAR-232

COPY TO _____

SIGNED: *Lucien Wagle*

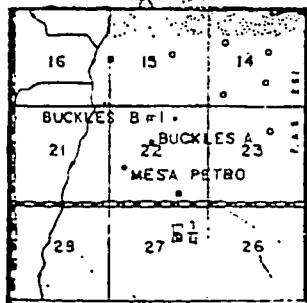
T.X.O. PRODUCTION CORPORATION LOCATION AND ELEVATION PLAT

SECTION 22, T 28 N, R 51 E
ROOSEVELT COUNTY, MONTANA



North

scale 1" = 1000'



VICINITY MAP
SCALE 1" = 2 MI

Ground elevation at Buckles B#1 well is 2096.
Ground elevation at Buckles A well is 2083.
Ground elevation at Mesa Pero well is 2079.

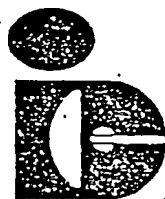
Interstate Engineering, Inc. of Sidney, Montana as requested by Leo Heath of T.X.O. Production Corporation has determined the ground elevation at bore hole of Buckles B#1 oil well to be 2096; at given location of the $SE\frac{1}{4}$ of $NW\frac{1}{4}$ ground elevation at bore hole of Buckles A oil well to be 2083; at given location of the $SE\frac{1}{4}$ of $NW\frac{1}{4}$, and ground elevation at bore hole of Mesa Petro well to be 2079 at given location of the $NW\frac{1}{4}$ of $SW\frac{1}{4}$ all in Section 22, Township 28 North, Range 51 East of the Principal Meridian Montana in Roosevelt County, Montana.

Registered Land Surveyor
Registration No. 2985

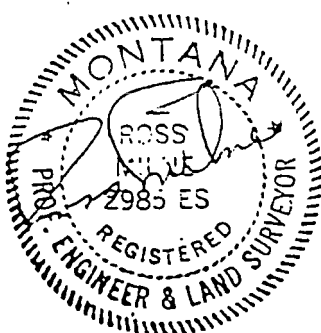
State of Montana
Date: 10/8/81

MAR02-0233

MAR-233



INTERSTATE ENGINEERING, INC.
BOX 648 SIDNEY, MONTANA 59270



MONTANA/NORTH DAKOTA PROJECT DRILLING REPORT

Page 1

August 10, 1981

TXO DRILLING - MONTANA:

BUCKLES "B" #1 (6000')

Prop. #92287, Afe #81-1217

Roosevelt Co., MT/TXO.100%

22-T28N-R51E

8/10/81 MIRU Bird Rig #5

8/11/81 Rig shut down for routine maintenance.
Will spud 8/12/81.

8/12/81 860' (860'). Drlg Surface.
10.1/41/NC. Spudded @ 10:00 pm
8/11/81. Drld 12 1/2" hole to 860',
TFB. Day 1. (CWC \$29,400).

8/13/81 1206' (346') WOC. Set pipe @
1149'. Ran 26 jts 8-5/8",
24# K-55 csg to 674', cem
w/760 sx Cl G. Good circulation.
Float held & pkr set. Day 2.
(CWC \$59,863).

8/14/81 2460' (1256'). Drlg. Drill out
csg shoe @ 11pm 8/13/81. Day 3.
(CWC: \$90,583).

8/15/81 3974' (1514'). Drlg. 9.7/39/20.5
Day 4. (CWC \$125,583).

8/16/81 4300' (326'). Drlg. 10.4/32/18.
Day 5. (CWC \$137,383).

8/17/81 4680' (380'). Drlg. 10.5/32/18.
Day 6. (CWC \$147,363).

8/18/81 4975' (295'). Drlg. Spearfish.
10.5/34/15. Day 7. (CWC \$155,343).

8/19/81 5200' (295'). Drlg. Kibbey.
10.4/32/17. Day 8.
(CWC \$164,273).

8/20/81 5525' (325'). Drlg. Kibbey.
10.3/32/15. Day 8.
(CWC \$221,275).

8/21/81 5810' (275'). Drlg. Charles "B".
10.5/35/11. Day 8. (CWC \$185,707).

8/22/81 5913' (103'). C&C. Charles "C".
10.6/36/10. Lost circ @ 5884'. Lost
approx 300 bbls. Regained circ. Drld
to 5920'. Lost another 70 bbls mud.
Day 9. (CWC \$190,087).

MAR02-0234

MAR-234

TXO DRILLING - MONTANA:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, Bird Rig #5

8/23/81 5913' (0'). TOOH. Charles "C".
C&C 2½ hrs. TOOH. Ran DLL-MSFL from
5905-1178' & FDC-CNL from 5905-5700'.
TIH. C&C. TOOH. Day 10.
(CWC \$222,345).

8/24/81 5913' (0'). RD RT. Charles "C".
Ran 141 jts 4½" 10.5# & 11.6# csg.
Set @ 5913' w/FC @ 5863 & DV @ 5398',
Cmt 1st stage w/100 sxs Class "G".
Cmt 2nd stage w/485 sxs 65/35 poz.
Tailed in w/125 sxs Class "G". Had
good circ thruout. BP @ 1:30 pm
8/23/81. Waited 12 hrs. Set slips
@ 6 pm 8/24/81 & RR @ 8 am 8/24/81.
Day 11. (CWC \$292,377)

COMPLETION:

8/25/81 WOCR. (CWC \$292,377).
8/26/81 WOCR. (CWC \$292,377).
8/27/81 WOCR. (CWC \$292,377).
8/28/81 WOCR. (CWC \$292,377)..

TXO COMPLETION:

8/29/81 WOCR.
8/30/81 TIH w/bit & scrpr. (\$330,505).
8/31/81 SDFWE. (\$330,505).

TXO COMPLETION:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E

9/1/81 Drlg out cem. Tagged cmt @ 5115',
drld 250' cem. Drld thru DV tool.
(CWC \$334,305).

9/2/81 5835'. TIH. Drld out FC & cmt to
5835'. TOH. Ran GR-CCL log. (CWC
\$341,381).

MAR-235

MAR02-0235

TXO COMPLETION:

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc

9/3/81 Circ pkr fluid, TOOH, PU Vann
3-5/8" perf gun and Baker model
"R" pkr on 188 jts 2-3/8" tbgs.
Ran in hole w/tools & ran
GR-CCL log to correlate setting
depth. Set pkr @ 5745' w/18,00
compr. Instld wellhead. Dropp
firing bar to perf csg w/Vann
gun @ 5806-08' w/4 JSPF. No
flow into well. Fished firing
bar w/WL & released Vann gun.
Btm OE tailpipe @ 5788', Baker
profile SN @ 5711'. SDFN.
(CWC \$358,190).

9/4/81 RU Western & acidized perfs
w/200 gal 15% spearhead acid,
BDP=3100#, broke to 1800#, dec
rate to 1/2 BPM @ 500#, ISIP=
300#, 27 BLTR, flowed acid wtr
to pit, turned flow to test ta
flowing 1/2" stream on 10/64"
ch @ 225# FTP. Left flowing
overnight. (CWC \$246,918).

9/5/81 Ck plugged. SITP = 500 psi,
cleaned out ck, flowing @
375-400 psi w/12/64" ck, trace
oil w/heavy emulsion in wtr.
Left flowing overnight.
(CWC: \$246,918).

9/6/81 Ck plugged. Shut well in.
Fluid rec in 2 days intermitter
flowing = 7 BO & 18 BW.
(CWC: \$246,918).

9/7/81 SI. (CWC: \$246,918).

9/8/81 SI. (CWC: \$246,918).

9/9/81 Opened to flow @ 3:00 p.m.
9-8-81, initial flow temp. =
67°F. Flowed 1½ hrs to tank,
flow temp increased to 80°F,
rec 25 BF @ 210 psi FTP on
19/64" ck. Continue to flow
overnight. (CWC: \$246,918).

MAR02-0236

MAR-236

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%.
22-T28N-R51E, NL Well Svc

9/10/81 Flowed 18 BO & 242 BW in 15 hrs
on 19/64" ck @ 350 psi FTP,
wellhead temp = 110°F, 10 min
SITP = 600 psi, opened on 12/64"
ck @ 425 psi FTP, wellhead temp =
113°F, continue flowing.
(CWC: \$246,918).

9/11/81 Flowed 7 BO & 210 BW in 24 hrs.
on 12/64" ck w/425 psi FTP,
flowing wellhead temp dec to
95°F. Water analysis indicates
channeling. (CWC: \$246,918).

9/12/81 RU C.A. White Wireline & set
a plug in the "F" nipple @
5710'. RU NL Well Svc. Release
pkr & pull up to 3800'
w/2 3/8" tbg. Retrieved wireline
plug. Opened well to flow on
12/64" ck. SDON. (CWC: \$250,773)

9/13/81 WHP 500 psi. Ck was plugged off.
Cleaned ck & opened well to tank
on 12/64" ck. Flowed well 1½ hrs.
RU Gearhart & ran diff. temp logs.
RU Halliburton & pumped 10 bbls
fresh wtr, 20 bbls Tem-block 50
& 10 bbls fresh wtr. Displaced
w/heavy salt wtr. Initial pump
in pressure 1 BPM @ 3000#.
Displaced @ 2½ BPM @ 1000#. Circ
hole w/heavy salt wtr. SDFWE.
(CWC: \$260,373)

9/14/81 Well SI for Sunday. Prep to
TOOH w/tbg. (CWC: \$260,373).

9/15/81 SITP = 50 psi, pulled tbg &
pkr from 3800' to 800' with well
flowing, SD to set WL tbg plug.
SITP inc. from 100 psi to 220
psi in 2½ hrs. Set tbg plug in
"F" nipple. Ran tbg & pkr to
4280'. Prep to circ salt wtr
to kill well. (CWC: \$264,348).

MAR02-0237

MAR-237

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc

- 9/16/81 SITP = 75 psi, pulled tbg & pkr. TIH w/overshot & rec Vann perf gun. Well flowing during trip @ est 150-180°F, oil cut inc from 1% to 10% @ end of day, no gauge on flow. SDFN. (CWC: \$267,448)
- 9/17/81 SITP 400 psi. Blew down pres. TOOH w/ tbg. RU Gearhart Wireline & ran a CBL-GR from 5830' to 4285' (cmt top). Log showed good bond 5000' - TD, partial bond 4700' - 5000' & poor bond above 4700'. TIH w/pkr, 2 3/8" tbg. Set tailpipe @ 5766' w/pkr @ 5735' w/10,000# compression. NU wellhead & opened well on 28/64" ck. (CWC: \$271,835)
- 9/18/81 Flowed well on 16/64" ck, FTP = 280 psi, tested 22 BFPH w/2 1/2% oil cut. (CWC: \$271,835).
- 9/19/81 Flowed 340 BF in 21 hrs, no oil, 13/16" ck, FTP 325 psi.
- 9/20/81 Flowed 450 BF w/10 BO in 24 hrs, 16/64" ck.
- 9/21/81 Flowed 460 BF w/11 BO in 24 hrs, 16/64" ck. (CWC: \$271,835).
- 9/22/81 RU NL Well Service, release & pull tbg & pkr, prepare to run cmt retainer. SDFN. (CWC: \$271,835)
- 9/23/81 SICP = 430 psi. Ran Howco cmt retainer on 2 3/8" tbg, set @ 5645'. RU Halliburton, estab. rate of 3 BPM at 1000 psi. squeezed w/100 sx C1 "G" w/.8% FLA @ 2 BPM w/800 psi, did not squeeze, stung out of retainer, reverse circ tbg. SDFN. (CWC: \$281,081)
- 9/24/81 Stung into retainer, pressured to 1300 psi, held ok. TOOH w/tbg. TIH w/ 3-7/8" bit & scraper. (CWC: \$283,785)

MAR-238

MAR02-0238

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc.

- 9/25/81 Drld out cmt retainer @ 5645'.
Hit top cmt @ 5650', drilling
out cmt. (CWC: \$287,156).
- 9/26/81 Drld out cmt to PBTD 5840',
pressured csg to 1600# &
bled off immediately.
Prep to squeeze again.
(CWC: \$290,168).
- 9/27/81 TIH w/Model "R" pkr, set @
5675' w/TP @ 5705'. RU
Western. Squeezed w/50 sx
Class "G" cmt w/0.2% WR-6
0.5% CF-6, pmpd @ 1/2 BPM
& 2000 psi, dec to 3/4 BPM
& 1500 psi, displaced to perfs
& squeezed off w/2100 psi,
attempted to reverse out cmt
w/o success, pressured tbg
to 4000 psi & held. Pulled
pkr up to 1200', re-pressured
tbg to 4000 psi & cleared cmt
from tbg. TOOH. SDFN.
(CWC: \$296,471)
- 9/28/81 SDFWE.
- 9/29/81 TIH w/bit & scraper. Drill
out cmt stringers from 600'
to 5700'. SDFN.
(CWC: \$300,071)
- 9/30/81 Drilled out cmt to PBTD, perfs
clear of cmt. Ran Mod "R" pkr
to 5675', TP @ 5705'. Squeezed
perfs w/35 sx Class "G" w/
.4% WR-6, .6% CF-6 & .35% silica
flour, pmpd in @ 1/2 BPM
w/1500 psi, pmpd in stages and
squeezed @ 2100 psi. Pulled
pkr. SDFN. (CWC: \$303,633).
- 10/1/81. Drld out cmt from 5780' to 5820'.
Pmpd into perfs @ 2 BPM w/1100
psi. SDFN. (CWC: \$306,957)
- 10/2/81 Pulled bit & scraper. RU Gearhart.
Perfed @ 5802'-04' w/2 JSPF,
total 9 shots w/3-1/8" HSC gun.
~~Ran 2 3/8" tbg w/Model "R"~~
~~pkr set @ 5735' w/TP @ 5766'.~~
Opened well to flow @ 3:30 pm.
FTP = 260 psi w/12/64" ck.
(CWC: \$307,875).

1 (6000')
AFE #81-1217
MT/TXO 100%
NL Well Svc.

- 10/3/81 Ck plugged, TP = 390 psi.
Cleaned out ck, left flowing
on 12/64" w/FTP = 50 psi,
flowed 30 bbls load wtr in
8 hrs.
- 10/4/81 Flowed 25 BF w/no oil in
8 hrs, 12/64" ck, FTP 150 psi.
- 10/5/81 Flowed 25 BF in 22 hrs w/oil
trace, 12/64" ck, FTP 210 psi.
Prep to acidize. (CWC: \$310,875)
- 10/6/81 Acd perfs w/200 gal 15% Spearhead
acid, ATP = 800 psi @ 1 BPM,
ISIP = 750 psi, flowed on open ck
@ 120 psi, left flowing over-
night on 12/64" ck. Ck plugged
during night. SITP = 300 psi
this AM, prep to acd w/diverting
agent. (CWC: \$313,949)
- 10/7/81 RU Western, estab rate 3 BPM
@ 1300 psi, pmpd 250 gal
diverting agent of 40# gel
w/300# benzoic acid flakes &
9 ball sealers, followed w/500
gal 15% Spearhead acid. BDP =
2300 psi, ATP = 1500 psi @ 1.6
BPM, ISIP = 650 psi. 73 BLWTR.
Started flowing back on 12/64"
ck w/290 psi FTP.
(CWC: \$317,317)
- 10/8/81 Flowed 40 bbls LW in 3 hrs,
opened to 16/64" ck, well died
during night, SITP = 0. Opened
wellhead & blew out solid plug
of diverting material, well
flowing on 16/64" ck, FTP =
300 psi. (CWC: \$317,317).
- 10/9/81 Flowed 216 BF in 18 hrs w/5%
oil cut, FTP = 350 psi on 16/64"
ck, fluid warming up.
(CWC: \$317,317)

MAR-240

MAR02-0240

BUCKLES "B" #1 (6000')
Prop. #92287, AFE #81-1217
Roosevelt Co, MT/TXO 100%
22-T28N-R51E, NL Well Svc.

10/10/81	Flowed 20 BO, 410 BW in 24 hrs. FTP 310 psi, 16/64" ck.
10/11/81	Flowed 3 BO, 107 BW in 24 hrs. FTP 310 psi, 16/64" ck.
10/12/81	Flowed 5 BO, 350 BW in 24 hrs. FTP 310 psi, 16/64" ck. (CWC: \$317,317).
10/13/81	Flowed 5 BO & 445 BW in 24 hrs. FTP = 300#, 18/64" ck. (CWC: \$317,317)
10/14/81	Flowed 3 BO & 100 BW in 24 hrs on 12/64" ck. FTP = 405 psi.
10/15/81	Flowed 43 BF in 24 hrs w/trace oil, 12/64" ck. FTP = 380 psi. (CWC: \$317,317).
10/16/81	Flowed 30 BF in 24 hrs w/no oil, FTP = 380 psi, 12/64" ck. (CWC: \$317,317).
10/17/81	Flowed 5 BO & 483 BW in 24 hrs on 22/64" ck w/FTP = 210 psi.
10/18/81	Flowed 6 BO & 646 BW in 24 hrs on 23/64" ck w/FTP = 210 psi.
10/19/81	Flowed 6 BO & 622 BW in 24 hrs on 23/64" ck w/FTP = 200 psi.
10/20/81	SI for evaluation. <u>DROP</u> <u>FROM REPORT UNTIL FURTHER</u> <u>ACTIVITY.</u> (CWC: \$317,317)

MAR02-0241

MAR-241

10-17-81 Flowed 5 BO + 483 BW in 24 hrs on 22/64" ch w/
FTP = 210 psi

10-18-81 Flowed 6 BO + 646 BW in 24 hrs on 23/64" ch w/
FTP = 210 psi

10-19-81 Flowed 6 BO + 622 BW in 24 hrs on 23/64" ch w/
FTP = 200 psi

10-20-81 Shut in for evaluation. Drop from report until further
activity.

MAR02-0242

MAR-242

Flowed 30 BF in 24 hrs w/no oil,
FTP = 380 psi, 12/64" CK.

MAR02-0243

MAR-243

report for 10-14-81 : Flowed 3 Bo + 100 BW in 24 hrs on 12/64" ch,
FTP = 405 psi

report for 10-15-81 : Flowed 43 BF in 24 hrs w/ tank
oil, 12/64" ch. FTP = 380 psi

Flowed 5 BO + 445 BW in
24 hrs FTP 300 # 18/64" CK.

MAR-245

MAR02-0245

DRILLING _____ COMPLETIONS X OPERATION. _____

9th
 Flowed 430 BF in 24 hrs w/ 5% oil cut, FTP = 300 psi on 16/64" c

10-11-81 11 ft $\frac{1}{2}$ " BF TP 310 CSQ 310
 16/64

10-12-81 17 ft $9\frac{1}{2}$ " BI TP 310 CSQ 310
 $1\frac{1}{2}$ 90 oil cut. 16/64

10/10/81 Flowed ~~2580, 410 BW in 24 hrs~~ 2080, 410 BW in
 24 hrs. FTP 310 psi, 16/64" c k.

10/11/81 Flowed 3 BD, 107 BW in 24 hrs. FTP
 310 psi, 16/64" c k.

10/12/81 Flowed 5 BD, 350 BW in 24 hrs. FTP 310 psi,
 16/64" c k.

MAR02-0246

MAR-246

Flowed 216 BF in 18 hrs w/ 5% oil cut, FTP = 350 psi on
16/64" ch, fluid warming up.

Flowed 40 bbls LW in 3 hrs, opened to 16/64" ch, well died during night, SITP=0, opened wellhead and blew out solid plug of diverting material, well flowing on 16/64" ch, FTP=300 psi / rec _____ BF in _____
% oil.

MAR-248

MAR02-0248

Rig up Western, estab. rate 3 BPM @ 1300 psi, pumped 250 gal diverting agent of 40# gel w/ 300# benzoic acid flakes + 9 ball sealers, followed w/ 500 gal 15% spearhead acid, BDP = 2300 psi, ATP = 1500 psi @ 1.6 BPM, ISIP = 650 psi. 73 BLWTR. Started flowing back on 1 7/8" ch w/ 290 psi FTP.

rig	\$ 240
acid	2808
wth	120
supr.	200
	<u>3368</u>

DWC = \$3368.

CWC \$317,317

Acidized perforations w/ 200 gal 15% spearhead acid, ATP = 800 psi @ 1 BP.
ISIP = 750 psi, flowed on open ch @ 120 psi, left flowing
overnight on 12/64" ch., Choke plugged during night, SITP = 300 psi
this AM, prep to acidize w/ diverting agent.

DWC = # 3074

CWC: # 313,949

10-3-81 Choke plugged, TP = 390 psi, cleaned out choke, left flowing on $1\frac{1}{2}/64"$ w/ FTP = 50 psi, flowed 30 bbls loss water in 8 hrs.

10-4-81 Flowed 25 BF w/ no oil in 8 hrs, $1\frac{1}{2}/64"$ ch, FTP 150 psi

10-5-81 Flowed 25 BF in 22 hrs w/ oil specks, $1\frac{1}{2}/64"$ ch, FTP 210 psi
 Prepare to re-tilt

DWC = \$3000 (rig standby)

(CWC \$310,875)

MAR-251

MAR02-0251

Pulled bit & scraper, Rig up Gearhart, perfed @ 5802-04' w/
2 JSPE, total 9 shots w/ 3/8" HSC gun, Ran 2 5/8" Hg w/ Model "R"
phr set @ 5735', Opened well to flow @ 3:30 PM, FTP = 260 psi w/
12/64" ch.

w/ TP @ 5766'

rig	\$ 2216
rent	100
perf	1726
Supr.	200
DWC =	\$ 4242

(CWC: \$ 307,875)

standing rate	\$ 1679
rental	100
	\$ 1779

opening gauge 9" fluid

MAR-252

MAR02-0252

Drilled out cmt from 5780' to 5820'.
@ 7 BPM w/ 1100 psi. SDFN

Pumped into perfs

rig \$ 3024
supp. 200
rental 100

DWC = \$ 3324

(\$ 306,957)

MAR-253

MAR02-0253

Drilled out cmt to PBTD, perforated clear of cmt, Ran Mod "R" per to 5675', TP @ 5705', squeezed perforations w/ 355x Class "G" w/ .4% WR-1 .6% CF-6 + 35% silica flour, pumped in @ 1/2 BPM w/ 1500 psi, pumped in stages and squeezed @ 2100 psi. Pulled phi. SDFN.

rig	3052
wtl	210
rent	100
supr	200
	<u>3562</u>

300, 071

3 562

303, 633

MAR-254

MAR02-0254

TIH w/ bit + scraper, drill out cut strings from 600' to 5700',
SDFN.

rig	\$ 3300
rent	100
super.	200
DWC =	\$ 3600

(CWC: 300071)

MAR-255

MAR02-0255

DRILLING _____ COMPLETIONS X OPERATION _____

9-26-81 Drilled out cmt to PBTD 5840', pressured cgt to 1600# & bled off immediately, prep to squeeze again.

		Rig	\$2487
		rent	100
	287,156	bit	225
	3012	supr.	200
CWC:	577,524	DWC =	\$3012
	\$290,168		

9-27-81 TIH w/ Model "R" plr, set @ 5675' w/ TP @ 5205', Rig up Western, squeezed w/ 50 sx Class "G" cmt w/ 0.2% WR-6, 0.5% CF-6, pumped @ 1/2 BPM + 2000 psi, dec to 3/4 BPM + 1500 psi displaced to perf & squeezed off w/ 2100 psi, attempted to reverse out cmt w/o success, pressured hty to 4000 psi & held, pulled plr up to 1200', re-pressured hty to 4000 psi and cleared cmt from hty, TOOH, SDFN

		rig	\$3054
		cmt	2609
CWC	\$296,471	truck	290
		rent	150
		supr.	200
		DWC =	\$6303

9-28-81 SDFWE

WOCR

MAR-256

MAR02-0256

Drilled out cmt retainer @ 5645', hit top cmt @ 5650', drilling out cmt.

DWC = \$3371

283,785
3,371
 287,156

rig \$3071
 rental 100
 super. 200
\$3371

Strung into retainer, pressured to 1300 psi, held OK, TOOH w/ thg.
TIH w/ 3 7/8" bit + scraper.

DWC = \$ 2,704

Nil = \$ 2324

reptd - 100

wth. 80

Deep 200

2704

CWC: \$ 283,785

SICP = 430 psi, Ran lower cement retainer on 2 3/8" Hg, set @ 5645', Rig up Halliburton, estab rate of 3 BPM @ 1000 psi, squeezed w/ 100 SX Cl "G" w/ .8% FLA @ 12 BPM w/ 800 psi, did not squeeze string out of retainer, reverse circ Hg, SDFH.

DWC = \$9246

(CWC: \$281,081)

rig	\$1664
cement	\$5224
plan.	
truck	290
rent	50
supr.	200
	<u>\$7428</u>

Mon.

rig	1518
rent	100
supr	200
	<u>\$1818</u>

MAR-259

MAR02-0259

Rig up NL well service, release + pull stig + phr, prepare to run
cement retainer, SDFN

MAR-260

MAR02-0260

9-19-81 Flowed 340 BF in 21 hrs, no oil, 13/16" ch,
FTP 325 psi.

9-20-81 Flowed 450 BF w/ 10 Bo in 24 hrs, 16/64" ch

9-21-81 Flowed 460 BF w/ 11 Bo in 24 hrs, 16/64" ch

MAR-261

MAR02-0261

DATE _____ WELL NAME _____
DRILLING _____ COMPLETIONS X OPERATION _____

Flowed well on 16/64" ch, FIP = 280 psi, tested 22 BFPH
w/ 2 1/2 % oil cut

MAR-262

MAR02-0262

SITP 400 PSL. Blow down press. TONN w/ tag.
 R.H. Gearhart Wireline & ran a CBL-GK from 5830' to
 4285' (amt top). Log showed good bond 5000'-T.D. &
 partial bond 4700'-5000' & poor bond
 above 4700'. T.H. w/ 1 jt 2 3/8" tailpipe,
 Baker Model "R-3" singl - rize pkr, 1 jt 2 3/8" tbg,
 1.87" I.D. "F" nipple, & 2 3/8" tbg. Set tailpipe
 @ 5766' w/ pkr @ 5735' & "F" nipple @
 5705'. ^{Wiggoott compression.}

N.H. well head & opened well to the
 tanks on 28/64" ck @ 8:00 p.m. 9-16-81.

Costs:

Ris	2102
Wireline	4585
Sugar	200
Bentals	100
Baker Pkr	500
	\$ 7487

(CWC: \$ 271,835)

Tank Gauge 4'2" @ 8:00 p.m. 9-16-81

MAR-263

MAR02-0263

SIT.P = 75 psi, pulled tbg + pks, T.I.H w/ overshot + rec Vann
perf gun, well flowing during trip @ est 150-180°F, oil cut inc
from 1% to 10% at end of day, no gauge on flow, SDFN.

	rig	2300
Well-Pro Rental	rental	600
	Supv.	<u>200</u>

DWC = \$3100

(CWC: \$267,448)

MAR-264

MAR02-0264

SITP = 50 psi, Pulled tbg & plr from 3800' to 800' with well flowing
SD to set WL tbg plug, SITP inc from 100 psi to 220 psi in 2 1/2 hrs
Set tbg plug in 6" nipple. Ran tbg & plr to 4280', Prep to circ
salt wtr to kill well.

DWIC = \$ 3975

est	rig	\$ 1425
	WL	2000
	wtr	500
	rental	50
		<u>3975</u>

(CWC: #264,348)

MAR-265

MAR02-0265

Well S.I. for Sunday Prep to
TODAY ~~by~~ thg.

MAR-266

MAR02-0266

DRILLING _____ COMPLETIONS ☒ OPERATION _____

~~WHP 500 psi.~~ CR was plugged off.
 Cleaned c.r. & ~~reopened~~ well to tank on 12 1/4" CR. Flowed
 well 1 1/2 hrs. R.H. Gearhart & ran ~~the~~ diff
 temp. logs. R.H. Halliburton & pumped
 10 bbls Fresh wtr, 20 bbls Tem-black 50 &
 10 bbls Fresh wtr. & Displaced w/ ~~heavy~~
 heavy salt wtr. ~~Initial pump in pressure 1 BPM @ 3000 #.~~
 Displaced @ 2 1/2 BPM @ 1000 #. ~~Circ~~ Circ
 hole w/ heavy salt wtr. SD FWF.

Ran	2040
Surf	200
Rentals	200
Wtr	530
Whelline	3860
Pumping	2770
	9600.

CURC: \$ 260,373

MAR-267

MAR02-0267

DATE 7-12-81 WELL NAME WICKIIPS 15 OPERATOR 1001

DRILLING COMPLETIONS ✓ OPERATION

~~REDACTED~~
R.A. C.A. White Wireline & set a plug
in the "F" nipple @ 5710' ^{2 1/4" x 2 1/2" w/ D Serp} Release plug +
pull up to 3800' ^{2000'} 2 3/8" tbg. Retrieved wireline plug.
Opened well to flow on 12/164" CK. SDON.

Wireline	1900
Rig	145.5
Supp	200
Rentals	200
	3855

CWC: 250,773

MAR-268

MAR02-0268

DATE 7-11 WELL NAME Dursey 15 OPERATOR 120

DRILLING___ COMPLETIONS X OPERATION___

Flowed 7 80 + 210 BW in 24 hrs on 1 2/64" ch w/ 425 psi FTP,
flowing wellhead temp dec to 95°F. Water analysis indicates channeling

MAR-269

MAR02-0269

DRILLING _____ COMPLETIONS X OPERATIONS _____

Flowed 18 B0 + 242 BW in 15 hrs on 1 9/64" dk at 350 psi FTP,
wellhead temp = 110°F; 10 min SETP = 600 psi, Opened on 12/64" ch
at 425 psi FTP, wellhead temp = 113°F, continue flowing.

MAR-270

MAR02-0270

DATE 9-9-81 WELL NAME BUCKLES B #1 OPERATOR TXO
DRILLING COMPLETIONS X OPERATION

Opened to flow @ 3:00 pm 9-8-81, initial flow temp = 67°F
flowed 1 1/2 hrs to tank, flow temp increased to 80°F, rec
25 BF at 210 psi FTP on 1 9/64" ch.; continue to flow overnight

MAR-271

MAR02-0271

DATE _____ WELL NAME DUCKIES B OPERATOR TXU-PC

DRILLING _____ COMPLETIONS X OPERATION _____

9-5-81 Choke plugged, SITP = 500 psi, cleaned out choke, flowing at 375-400 psi w/ 12/64" ch, trace oil w/ heavy emulsion in water. Left flowing overnight, ~~choke plugged~~
~~by morning~~

9-6-81 Choke plugged, shut well in.
Fluid rec. in 2 days intermittent flowing = 7 Bo + 18 BW.

9-7-81 SI

9-8-81 SI

MAR-272

MAR02-0272

RV Western and acidized perfs w/ 200 gal 15% Spearhead Acid, BDP = 3100^f
 broke to 1800[#], dec rate to 1/2 BPM @ 500[#], ISIP = 300[#], 27 BLTR
 Flowed acid into the pit, turned flow to test tank, flowing 1/2"
 stream on 10/64" ch @ 225[#] FTP. Left flowing overnight.

$$DWC = 5705$$

rig	725
acid	1660
wt	120
sup	200
misc (rig, wt, nonabate)	3000
	<u>5705</u>

241,213

5705

246,918

MAR-273

MAR02-0273

Circ. phr fluid, TOOH; Pick up Vann 3⁵/₈" perf gun and Baker model "R" phr on 188 ft 2³/₈" tlg. Ran in hole w/ tools + ran GR-CCL log to correlate setting depth. Set phr @ 5745' w/ 18,000# compr. Installed wellhead. Dropped firing bar to perf crg w/ Vann gun @ 5806-08' w/ 4 JSPF. No flow into well. Fished firing bar w/ WL and released Vann gun. Btm OE tailpipe @ 5788', Baker profile SNC 5711'. SDFN

(See well file for bottomhole assembly details.)

DWC =

rig	2640
perf	5424
logs	4345
wireline	1200
packers	2500
rental	500
supv.	200
	<u>\$ 16,809</u>

CWC = \$358,190

MAR-274

MAR02-0274

8-39-81- W O G R

8-30-81- T I H w/ bit & scraper

8-31-81- S D F W E

Daily Costs	
H + S	\$ 753
Wellhead	8000
Pipe	26,020
Rentals	900
Trucking	1,100
Rig	1,000
Bits	375
	\$ 38,128

CW C = \$ 330,505

MAR-275

MAR02-0275

DAILY DRILLING REPORT

DATE 9-2-81

DAY _____

OPERATOR TXOPG

WELL Buckles "B" #1

DEPTH 5835' OPERATIONS REPORT TIME TH

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

NO. 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Drilled to 5835' TOH
out FC & cut
~~Run CR-CCL log~~
Run CR-CCL log

DAILY COSTS	
RIG	<u>\$ 3800</u>
MUD	_____
WATER	_____
BITS	_____
LOGGING	_____
TESTING	_____
CEMENTING	_____
RENTALS	<u>300</u>
MATERIALS (csg & wh)	_____
<u>Hydrat gnd</u>	<u>2776</u>
<u>Superior</u>	<u>200</u>
MAR02-0276	
DAILY TOTAL	<u>\$ 7076</u>
CUMULATIVE	<u>\$ 341,381</u>

MAR-276

DAILY DRILLING REPORT

DATE 9-1-81

DAY _____

OPERATOR TXOPG

WELL Buckles "B" #1

DEPTH _____ OPERATIONS REPORT TIME Along out Cement

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____
 YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
 NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Tapered cut @ 5115
250' cement : Drilled through.
DV tool

DAILY COSTS	
RIG	<u>3300</u>
MUD	_____
WATER	_____
BITS	_____
LOGGING	_____
TESTING	_____
CEMENTING	_____
RENTALS	<u>300</u>
MATERIALS (csg & wh)	_____
<u>Auger</u>	<u>200</u>
MAR02-0277	
DAILY TOTAL \$ <u>3200</u> MAR-277 CUMULATIVE \$ <u>331,300</u>	

DAILY DRILLING REPORT

DATE 8-24-81

DAY 11

OPERATOR TXD

WELL Buckles "B" 1

DEPTH 5913 OPERATIONS REPORT TIME RD RT

0 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT ; VIS ; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT RPM NO. 1 PUMP PRESSURE PUMP "X" "X" SPM
 NO 2 PUMP PRESSURE PUMP "X" "X" SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

Ran 141 jts 4 1/2" 10.5# & 11.6# csg

REMARKS: Ran 19 jts 4 1/2" 11.6# K-55

ST&C 8rd & 122 jts 4 1/2"

10.5# K-55 ST&C 8rd csg

Set @ 5913' w/ FC @ 5863'

& # 2 @ 5398' Cmt 1st

to c/w 110 5x5 Class "G" w/

10% D-44, 0.8% D-60, 0.3%

D-13, 0.2% D-46 Cmt 2nd

Stage w/ 485 5x5 45/3.5

202 w/ 6% gel, 10% D-60 &

0.2% D-46 Tailed in w/

125 5x5 Class "G" w/ 10% D-44

0.6% D-60 & 1 1/2 #/sk J-51 Had

DAILY COSTS

RIG 5000

MUD

WATER

BITS

LOGGING MAR02-0278

TESTING

CEMENTING 20757

RENTALS 75

Csg Trucking MATERIALS (csg & wh)

Supv 200

Csg 43000

MAR-278

DAILY TOTAL 70032

CUMULATIVE 292,377

DAILY DRILLING REPORT

DATE 8-23-81

DAY 10

OPERATOR TXD

WELL Buckles "B" 1

DEPTH ~~5907~~ 5913 OPERATIONS REPORT TIME TOOH

0 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____
 YP _____; GELS _____; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
5								30	2

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
 NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
5913	10		

REMARKS: C & C 2 1/2 hrs. TOOH.
Ran D&I - MSEL From 5905'
1178' & FDC - C&C From
5905'-5700'. TIN - C & C
TOOH.

DAILY COSTS	
RIG	6000
MUD	4400
WATER	540
BITS	
LOGGING	15865
TESTING	
CEMENTING	
RENTALS	1110
MATERIALS (csg & wh)	1676
Csg crew	2466
SCOP	200
MAR02-0279	
DAILY TOTAL	MAR-279 258
CUMULATIVE	222345

DAILY DRILLING REPORT

DATE 8-22-81

DAY 9

OPERATOR TXD

WELL Buckles 'B' 1

DEPTH 5913 ~~5920~~ OPERATIONS REPORT TIME CFC

103 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles C

MUD: WT 12.4 VIS 36; WL 10; FC _____; PH 7; SOLIDS 4; CL 18.5 ~~6.5~~ PV 9
YP 6; GELS 3/7; OIL _____; LCM 2; Salt 304500

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
<u>5</u>	<u>RR3154</u>	<u>2 7/8</u>	<u>STC</u>	<u>E-3</u>		<u>New</u>	<u>5890-5920</u>	<u>30</u>	<u>2</u>
<u>4</u>								<u>804</u>	<u>61 1/4</u>

WEIGHT ON BIT 40 RPM 65 NO. 1 PUMP PRESSURE 800 PUMP 5 1/2" X 1 1/2" X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: lost circ @ 5884' lost
approx 300 bbls. Regained circ.
Drilled to 5920' lost
another 70 bbls. mud.

DAILY COSTS	
RIG	<u>820</u>
MUD	<u>2600</u>
WATER	<u>260</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>500</u>
MATERIALS (csg & wh)	
Supv	<u>200</u>

MAR02-0280

MAR-280

DAILY TOTAL	<u>4380</u>
CUMULATIVE	<u>198087</u>

DAILY DRILLING REPORT

DATE 8-21-81

DAY 8

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 5810 OPERATIONS REPORT TIME Drig

275 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Charles "B"

MUD: WT 12.5 VIS 3.5; WL 11; FC _____; PH _____; SOLIDS _____; CL 184; PV 000

YP _____; GELS _____; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
4		7 7/8	HFC	J-22	15-15-15	New	5087	723	54 1/2

WEIGHT ON BIT 3.5 RPM 60 NO. 1 PUMP PRESSURE _____ PUMP _____"X_____"X_____ SPM
NO 2 PUMP PRESSURE 750 PUMP 5 1/2"X14"X64 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
<u>5500</u>	<u>1°</u>		

Do not include
REMARKS: Drig break Charles "A"
5550'-5567' 5"1/2 → 1"1/2 → 5"1/2
5616-5622' 5"1/2 → 1"1/2 → 5"1/2
5660-5670' 5"1/2 → 1"1/2 → 5"1/2
5700'-5707' 5"1/2 → 3 3/4"1/2 → 5"1/2
15 unit gas increase

DAILY COSTS	
RIG	<u>5500</u>
MUD	<u>2000</u>
WATER	<u>130</u>
BITS	
LOGGING	
TESTING	<u>MAR02-0281</u>
CEMENTING	
RENTALS	<u>360</u>
MATERIALS (csg & wh)	<u>44</u>
Fuel	<u>2400</u>
Rathole	<u>2800</u>
Supv	<u>MAR-281</u>
DAILY TOTAL	<u>12934</u>
CUMULATIVE	<u>185,702</u>

DAILY DRILLING REPORT

DATE 8-20-51

DAY 8

OPERATOR TXO

WELL Buckles "B" 1

DEPTH 5525 OPERATIONS REPORT TIME 0619

325 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Kibbey

MUD: WT 10.3 VIS 3.2; WL 1.5; FC ; PH 7; SOLIDS 3.5; CL 17.2; PV 6
0.00

YP 8; GELS: 3/6; OIL _____; LCM _____; Salt: 29,000

[illegible]

WEIGHT ON BIT 35 RPM 60 NO. 1 PUMP PRESSURE 850 PUMP 5 1/4" X 16" X 64 SPM
NO 2 PUMP PRESSURE 800 PUMP 5 1/4" X 14" X 64 SPM

SURVEYS:	DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

DAILY COSTS

RIG 6500

MUD 132.5

WATER 130

BITS _____

LOGGING _____

TESTING _____

CEMENTING_____

RENTALS 340

MATERIALS (csg & wh) _____

Super 200

MAR02-0282

MAR-282

DAILY TOTAL	8695
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CUMULATIVE	221,275 ^{...}
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DAILY DRILLING REPORT

DATE 8-19-81

DAY 8

OPERATOR TXO

WELL Buckles "B" 1

DEPTH 5200 OPERATIONS REPORT TIME Dr 1g

295 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Kibbey

MUD: WT 10.4 VIS 32; WL 17; FC ; PH 7; SOLIDS 3.5; CL ; PV 6
YP 6; GELS 4/16; OIL —; LCM ; Salt 297000

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
3								1103	7 1/4
4	45732	7 1/8	HTC	122	1.5-1.5-1.5	New	5082	113	7

WEIGHT ON BIT 38 RPM 60 NO. 1 PUMP PRESSURE PUMP "X "X SPM
NO 2 PUMP PRESSURE 800 PUMP 5 "X 16"X 64 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE
5081	1 1/4°		

REMARKS: _____

DAILY COSTS

RIG 4500
MUD 9468 1300
WATER 130
BITS _____
LOGGING _____
TESTING _____
CEMENTING _____
RENTALS 500
MATERIALS (csg & wh) _____
Fuel 2300
Supr 200

MAR02-0283

MAR-283

DAILY TOTAL	8930
CUMULATIVE	164,273

DAILY DRILLING REPORT

DATE 8-18-81

DAY 7

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 4975' OPERATIONS REPORT TIME Dclg

295 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Speargr Fish

MUD: WT 10.5 VIS 34; WL 15; FC _____; PH 7; SOLIDS 3.5; ^{Salt} 293; PV 11

YP 7; GELS 3/; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
3	768809	7 1/8	SEC	584F	15-15-15	New	3987-	98.8	63

WEIGHT ON BIT 30 RPM 60 NO. 1 PUMP PRESSURE 850 PUMP 5 1/2" X 16" X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Dclg break 4953'-4966'
Rate 4 1/2 ft → 3 1/4 min/ft. → 4 min/ft

Expect Mud loggers in location
8-17-81 in afternoon

DAILY COSTS	
RIG	<u>5900</u>
MUD	<u>1200</u>
WATER	<u>530</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>175</u>
MATERIALS (csg & wh)	
Supv	<u>200</u>

MAR02-0284

MAR-284

DAILY TOTAL	<u>7980</u>
CUMULATIVE	<u>155343</u>

• • •

8-77

6

TX0

B.1. - E. Q. A B.1. 1

4680

380'

FORMATION:

MUD: WT 10.5; VIS 32; WL 18; FC _____; PH 7; SOLIDS 3.5; CL _____; PV 7.

YP 5; GELS 2-3; OIL _____; LCM _____; _____

[illegible]

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM
NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:	DEPTH	ANGLE	DEPTH	ANGLE
	4611	$1\frac{1}{2}^{\circ}$		

REMARKS: Dr 1a break -

4519' & 4531'

Build Learn / Fit

DAILY COSTS

RIG 7600

MUD 1800 15740

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING_____

RENTALS 150

MATERIALS (csg & wh) _____

MAR02-0285

MAR-285

DAILY TOTAL	9,990
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CUMULATIVE \$ 147.373

DAILY DRILLING REPORT

DATE 5

DAY 8-16

OPERATOR TXO

WELL Burke's B" 77

DEPTH 4300' OPERATIONS REPORT TIME D. 19.

326' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT 0.4; VIS 32; WL 18; FC _____; PH 7; SOLIDS 3.5; CL _____; PV 7

YPS 6; GELS 2-3; OIL _____; LCM _____;

[illegible]

WEIGHT ON BIT 3000 RPM 60 NO. 1 PUMP PRESSURE 800 PUMP " X " X 5.4 SPM
NO 2 PUMP PRESSURE PUMP " X " X SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

84

1

DAILY COSTS

-RIG 6520

MUD 1800

WATER 1000

BITS _____

LOGGING _____

TESTING_____

CEMENTING_____

RENTALS 150

MATERIALS (csg & wh) _____

Fuel	2.143
------	-------

MAR02-0286

MAR-286

DAILY TOTAL	!! 800
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CUMULATIVE \$ 137,383

DATE 8-15

DAY 4

OPERATOR TXD

WELL Buckhorn B.

DEPTH 3974 OPERATIONS REPORT TIME 1104

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT 9.7; VIS 39; WL 20.5; FC _____; PH 9; SOLIDS trace; CL _____; PV 1

YP 1; GELS _____; OIL _____; LCM _____; _____

[illegible]

WEIGHT ON BIT 30 RPM 60 NO. 1 PUMP PRESSURE 800 PUMP _____"X_____"X 64 SPM
NO 2 PUMP PRESSURE _____ PUMP _____"X_____"X _____ SPM

SURVEYS:	DEPTH	ANGLE	DEPTH	ANGLE
	1/4°	3356	3985	1°

REMARKS: _____

DAILY COSTS

RIG 30.200

MUD _____ 90

WATER 19.00

BITS

LOGGING

TESTING_____ MAR02-0287

CEMENTING

RENTALS_____100

MATERIALS (csg & wh).

Fuel	2381.45
------	---------

Welding 350.00

Truck id 300

MAR-287

DAILY TOTAL	35,000
-------------	--------

CUMULATIVE \$ 125,583

DATE 8-14-81DAY 3OPERATOR TXOWELL Buckhorn 'B' 1DEPTH 2460' OPERATIONS REPORT TIME Only1256 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

Pit wtr

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES (3)	NEW/USED	FROM - TO	FEET	HOURS
1	B 8014	7/8 7/8"	Smith	FDS	16				

 WEIGHT ON BIT 25-30 RPM 200 NO. 1 PUMP PRESSURE 600[#] PUMP 5 1/2" X 16" X 64 SPM
 NO 2 PUMP PRESSURE _____ PUMP _____" X _____" X _____ SPM

SURVEYS:	DEPTH	ANGLE	DEPTH	ANGLE
	1800	1°	2325	1°

 REMARKS: NU 5 1/2 hrs.
WD - csg hd assembly 1 1/2 hr
Drill out csg shoe @ 11:pm 8-13-81

DAILY COSTS

RIG	<u>25.120</u>
MUD	<u>-</u>
WATER	<u>3.000</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>1.00</u>
MATERIALS (csg & wh)	
<u>csg hd assembly</u>	<u>2.500</u>

MAR02-0288

MAR-288

DAILY TOTAL	<u>30,720</u>
CUMULATIVE	<u>90,583</u>

DATE 8-13-81

DAY 2

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 1206 OPERATIONS REPORT TIME WOG

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT _____; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

NO 2 PUMP PRESSURE _____ PUMP _____ "X" _____ "X" _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Set pipe 8 1/2"

2 1/2" csg (26 ft.)

Pipe set at 1149' Ext

csg pkr was set at

6 7/8" 760 SX cont

class G 2 1/2" chint. R

1/4" cello pkr SX

cont 12.8 #

Yield 1.14. Good circulation

throughout float held & pkr set.

DAILY COSTS

RIG	6920
MUD 910	47.0
WATER	930
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	
MATERIALS (csg & wh)	
Fuel	1,628
Wires	2770
Lines	6481
Wash. oil	11,344
DAILY TOTAL	436,400
CUMULATIVE	421,000

MAR-289

MAR02-0289

DAILY DRILLING REPORT

DATE 8-12-81

DAY 1

OPERATOR TXO

WELL Buckles "B" #1

DEPTH 860' OPERATIONS REPORT TIME Drilling Surface

860' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: surface

MUD: WT 10.1; VIS 41; WL Ne; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP _____; GELS _____; OIL _____; LCM _____;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/USED	FROM - TO	FEET	HOURS
1A	RR	12 1/4"	HTC		3-.22	U	0 860'	860	

WEIGHT ON BIT all RPM 120 NO. 1 PUMP PRESSURE 600 PUMP 5 1/2" X 6" X 64 SPM
NO 2 PUMP PRESSURE 600 PUMP 5 1/2" X 14" X 58 SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Spudded @ 10:00 pm on 8-11-81
Drilled 12 1/4" hole to 860', trip for bit

DAILY COSTS	
RIG	<u>\$17,200</u>
MUD	<u>2000</u>
WATER	<u>1000</u>
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	<u>200</u>
MATERIALS (csg & wh)	
<u>rig more</u>	<u>10,000</u>
DAILY TOTAL	<u>\$29,400</u>
CUMULATIVE	<u>\$29,400</u>

MAR-290

MAR02-0290

8-11-81 Buckles "B" #1

Rig shut down for
routine maintenance,
will spud 8-12-81.

8-11-81 State "C" #1

SI to shoot FL

MAR-291

MAR02-0291

P

A

BUCKLES "A" #2
Sec. 22-T28N-R51E
Roosevelt County

MAR02-0292

MAR-292

Shred

10-12-70E

CHICAGO, ILL.

CHICAGO, ILL.

CHICAGO, ILL.

1X0-110

2106
11
2117 KB

DAILY REPORT

DATE: 21 AUGUST,

WELL: BICKLES

PRESENT TD: 5810 (-3693) ft./24 hr.

PRESENT OPERATION: drdg

GENERAL LITHOLOGY: CHARLES FORMATION CHARLES "C" @ 5821 (-3704)

ZONES OF LITHOLOGIC CHANGE: _____

SAMPLE CONDITION: _____

AVERAGE DRILLING RATE: _____

DRILLING BREAKS: _____

LOST CIRCULATION ZONES: _____

SAMPLE TOPS: CHARLES @ 5810 (-3693) 0' (A-ZONE 5557 (-3440)) (B-ZONE -3543 15' 1")
corr - 3367 corr - 3558

LOGGING UNIT BREAKDOWN: (GREEN POINT 5706 (-3589) 16' 1")
(-3605)

TIME (HRS.): _____
INTERVAL: _____

MUD WT: _____, VISCOSITY _____, BACKGROUND GAS 2u, TOTAL KICK 44u, TRIP GAS 44u

REMARKS: @ 1200 pm (noon) TOP @ 5821 (-3704) @ TD 5826

5 FEET INTO CHARLES C - ZONE & DOLOMITIC LIMESTONE. TRACE

RESIDUAL OIL IN CUTTINGS, SCATTERED INTERXLN POROSITY & SCATTERED DRILLING

SLOW TO FB & MILKY CUTS. GAS @ 8u 2u T12 44u - DRILLING BREAK

5821-26 1 1/2 : 1 1/2 : 2 : 2 : 3 1/2 MINUTES PER FOOT

@ 5820 (-3703)

MAR02-0293

MAR-293

2106 2117 KB

UIC conversation
441-1

MAR-294

DAILY REPORTDATE: 19 AUGUST 81WELL: BUCKLES B-1PRESENT TD: 5200' _____ ft./24 hr.PRESENT OPERATION: OTTER

GENERAL LITHOLOGY: _____

ZONES OF LITHOLOGIC CHANGE: _____

SAMPLE CONDITION: _____

AVERAGE DRILLING RATE: _____

DRILLING BREAKS: _____

LOST CIRCULATION ZONES: _____

SAMPLE TOPS: _____

LOGGING UNIT BREAKDOWN:

TIME (HRS.): _____

INTERVAL: _____

MUD WT: 10.4, VISCOSITY 32, BACKGROUND GAS _____, TRIP GAS _____REMARKS: Watr 1s 17TRIP 18-Aug 81 new bit on btm:Kalina Jones: Mud loggerCarter Stewart Geo:

MAR02-0295

MAR-295

ELECTRIC LOG
DISTRIBUTION
Buckles "B" #1

TXO Production Corp.
2705 Montana Avenue, Suite 300
Billings, Montana 59101
ATTN: Mike Walen

4 Field
4 Final
1 Sepia

TXO Production Corp.
2150 Fidelity Union Tower
Dallas, Texas 75201
ATTN: Engineering & Production

1 Field
1 Final

Board of Oil & Gas Conservation
2535 St. John's Avenue
Billings, Montana - 59102

3 Final

Dorrance D. Steele
Oil & Gas Supervisor
Fort Peck Agency
Box 637
Poplar, Montana 59255

1 Final

ELECTRIC LOGS: Telecopier on location, telecopy important zones of
interest to: (406) 248-4330
TXO Production Corp.
Billings, Montana

MAR02-0296

MAR-296

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO.

DATE 8-27 1981 DEPTH 5920

API WELL NO. STATE COUNTY WELL S/T

OPERATOR TEXAS OIL & GAS
ADDRESS A. LINGS
REPORT FOR MR. WALT DYER
WELL NAME AND NO. BUCKLEY #1
CONTRACTOR DIAP
ADDRESS R/C
REPORT FOR MR. DAVID HANSON
RIG NO. 5
SPUD DATE 8-11-81
SECTION, TOWNSHIP, RANGE 12-29N-51E

FIELD OR BLOCK NO. W/C
COUNTY ROOSEVELT
STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY LOGGING		SURFACE 85 IN. at 1149 FT.		HOLE PITS 378 300		PUMP SIZE x IN 5 1/2 14	
BIT SIZE (IN) NO 7 7/8 5		INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME 678		ANNULAR VEL. (FT./MIN) OPPOSITE DP 197	
DRILL PIPE SIZE TYPE 4 1/2 XH		PRODUCTION OR LINE IN. at FT.		IN STORAGE		PUMP MAKE MODEL 550	
DRILL COLLAR SIZE 6 1/4 509		MUD TYPE SALT GEL - STARCH		BBL/STROKE STROKE/MIN 126 64		CIRCULATING PRESSURE PSI 800	
				BBL/MIN 8.0		BOTTOMS UP (MIN) 47	
						SYSTEM TOTAL (MIN) 85	

SAMPLE FROM FLOWLINE PIT
FLOWLINE TEMPERATURE OF
DAILY COST 6991
CUMULATIVE COST 20399

MUD PROPERTIES SPECIFICATIONS	
WEIGHT	VISCOSITY
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
Mud in Slugs To Run Pipe	
May want to run in a little more Fiber!	
TIME SAMPLE TAKEN	0900
DEPTH (FT)	5920
WEIGHT (PPG) (LB./CU. FT)	10.4
MUD GRADIENT (PSI/FT)	0.5408
FUNNEL VISCOSITY (SEC./QT.) API AT OF	42
PLASTIC VISCOSITY CP AT OF	12
YIELD POINT (LB./100 SQ. FT.)	8
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.	3-8
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER	7.0
FILTRATE API (ML/30 MIN)	6.0
API HT-HP FILTRATE (MU/30 MIN.) OF	
CAKE THICKNESS 32nd IN. API HT-HP	2/32
P-ALKALINITY (PF.) & PM	
METHYL ORANGE ALKALINITY	
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. 306.75	CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G. 182,300
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)	H ₂ O
SAND CONTENT (% BY VOL)	TR
SOLIDS CONTENT (% BY VOL)	3 1/2
OIL CONTENT (% BY VOL)	0
WATER CONTENT (% BY VOL)	96 1/2
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl bent.)	Chromate 800

Remarks and Recommendations:

STARCH - 55
SALT GEL - 96
SALT - 45
MICA - 65
CHROMATE - 2
CEMEX FIBER - 72
BARITE - 25
STARCH - 15
SALT GEL - 30
CEMEX FIBER - 25
2.1 ST
5691
22 NB
1300

Tony & Rich
SERVICE ENGINEER
TELEPHONE
EXCHANGE
MOBILE SERVICE
WHSE. NO. AND LOCATION

ANY OPINION OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

MAR02-0297

MAR-297

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-21 19 81 DEPTH 5822
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR Texas Oil & Gas CONTRACTOR Brd RIG NO. 5
ADDRESS Billings ADDRESS Rig SPUD DATE 8-11-81
REPORT FOR MR. Walt Dyer REPORT FOR MR. Byron Hansen SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. Buchlos #1 FIELD OR BLOCK NO. W Peble COUNTY Roosevelt STATE Mont

OPERATION	CASING	MUD VOLUME (BBL)	CIRCULATION DATA	
PUMP SIZE x IN <u>5 1/2 x 14</u>	ANNULAR VEL. (FT/MIN) <u>197</u>			
PRESENT ACTIVITY <u>Drilling</u>	SURFACE: <u>878 IN. at 1149 FT.</u>	HOLE PITS <u>373 300</u>	PUMP MAKE <u>12-50</u>	OPPOSITE DP <u>197</u>
BIT SIZE (IN) NO <u>7 7/8 4</u>	INTERMEDIATE IN. at FT.	TOTAL CIRCULATING VOLUME <u>673</u>	MODEL <u>550</u>	OPPOSITE COLLAR <u>358</u>
DRILL PIPE SIZE TYPE <u>4 1/2 KH</u>	PRODUCTION OR LINE IN. at FT.	IN STORAGE	BBL/STROKE STROKE/MIN <u>126 64</u>	CIRCULATING PRESSURE PSI <u>800</u>
DRILL COLLAR SIZE LENGTH <u>6 1/4 509</u>	MUD TYPE <u>Salt Gel - Starch</u>		BBL/MIN <u>80</u>	BOTTOMS UP (MIN) <u>45</u>
				SYSTEM TOTAL (MIN) <u>83</u>

SAMPLE FROM _____ FLOWLINE _____ PIT _____ MUD PROPERTIES _____
FLOWLINE TEMPERATURE _____ OF _____ DAILY COST 1950 CUMULATIVE COST 13,408

MUD PROPERTIES SPECIFICATIONS	
WEIGHT	VISCOSITY
FILTRATE	
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
<u>Starch - 8 lbs / Ton or as needed for 15-18 sec WL.</u>	
<u>Salt Gel - 10 lbs / Ton or as needed for 35-40 Vis</u>	
<u>Salt - 30 lbs / Ton</u>	
<u>Mica - 5 lbs / Ton</u>	
<u>Fiber - 20 lbs / Ton</u>	
<u>Chromate - 1 lb on dry lites</u>	
<u>Rum Good 1" stream salt H.O. Thuy salt 661</u>	
<u>Chromate</u>	
<u>850</u>	

Remarks and Recommendations: Raise WT. to 10.8 w/salt & Barite
Starch - 21
Salt Gel - 44
Mica - 15
Fiber - 5
Chromate - 1
Salt - 70

SERVICE RECOMMEND TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION
701-572-7857

ANY OPINION OR RECOMMENDATION, EXPRESSED ORAL OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

MAR02-0298

MAR-298

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-20 19 81 DEPTH 5535

API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR B.I.A.D. RIG NO. 5

ADDRESS BILLINGS ADDRESS RIG SPUD DATE 8-11-81

REPORT FOR MR. WALT DYER REPORT FOR MR. AYRON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. WIC COUNTY ROOSEVELT STATE MONT

OPERATION DRILLING CASING 8 1/2" IN. at 1149 FT. MUD VOLUME (BBL) 353 CIRCULATION DATA

PUMP SIZE x IN. 5 1/2 x 14 ANNULAR VEL. (FT./MIN) 197

BIT SIZE (IN) 7 7/8 NO. 4 INTERMEDIATE IN. at _____ FT. TOTAL CIRCULATING VOLUME 653 PUMP MAKE ERSCO MODEL 550 OPPOSITE COLLAR 358

DRILL PIPE SIZE 4 1/2 TYPE X-H PRODUCTION OR LINE IN. at _____ FT. IN STORAGE _____ BBL/STROKE 126 STROKE/MIN 64 CIRCULATING PRESSURE PSI 800

DRILL COLLAR 6 1/2 LENGTH 509 MUD TYPE SALT GEL - STARCH BBL/MIN 8.0 BOTTOMS UP (MIN) 44

SYSTEM _____ TOTAL (MIN) 81

SAMPLE FROM FLOWLINE PIT _____ MUD PROPERTIES

FLOWLINE TEMPERATURE 134 °F DAILY COST 1990 CUMULATIVE COST 11458

TIME SAMPLE TAKEN 9:00 MUD PROPERTIES SPECIFICATIONS

DEPTH (FT) 5535 WEIGHT 10.4 VISCOSITY 35-38 FILTRATE 15-17

WEIGHT (PPG) (LB./CU. FT) 10.34 BY AUTHORITY: ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR

MUD GRADIENT (PSI/FT) 5356 ☐ OPERATOR'S REPRESENTATIVE ☐ OTHER

FUNNEL VISCOSITY (SEC/QT.) API AT 34 STARCH - 8 SX/TOUR OR AS NEEDED

PLASTIC VISCOSITY CP AT 7 FOR 15 TO 17 WH.

YIELD POINT (LB./100 SQ. FT.) 9 SALT GEL - 10 SX/TOUR OR AS NEEDED

GEL STRENGTH (LB./100 SQ. FT.) 10 SEC/10 MIN. 4-7 FOR 35-38 U.S.

PH ☒ STRIP ☐ METER 7.0 SALT - 30-35 SX/TOUR

FILTRATE API (ML/30 MIN) 15 MICA - 5 SX/TOUR

API HT-HP FILTRATE (ML/30 MIN.) _____ °F CHROMATE - 1/2 SX/1 DAY LITES ONLY

CAKE THICKNESS 32nd IN. API 297 CEDRA FIBER - 2 SX/TOUR

P-ALKALINITY (PF.) & PM _____ RUN 1" STREAM SALT H₂O WHILE DRILLING

METHYL ORANGE ALKALINITY _____

SALT ☐ P.P.M. 303600 CHLORIDE ☐ P.P.M. 184000

CALCIUM ☐ P.P.M. ☐ GYP (PPB) 400

SAND CONTENT (% BY VOL) TR

SOLIDS CONTENT (% BY VOL) 34

OIL CONTENT (% BY VOL) 0

WATER CONTENT (% BY VOL) 96.5

METHYLENE BLUE CAPACITY ☐ (ml/ml mud) ☐ (equiv. #/Bbl. bent.) 900

CHROMATE 900

Remarks and Recommendations: _____

MAR02-0299

STARCH - 31

SALT GEL - 39

SALT - 20

MICA - 20

CHROMATE - 1/2 SX

CEDRA FIBER 8

MAR-299

SERVICE ENGINEER _____ TELEPHONE 572-7857 EXCHANGE W.H. ND. MOBILE SERVICE _____ WHSE. NO. AND LOCATION _____

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

REPORT _____
NO. _____

DATE 8-19 1981 DEPTH 5194

API WELL NO.	STATE	COUNTY	WELL				S/T

WELL NAME AND NO. BOTTLES #1	FIELD OR BLOCK NO. W/C	COUNTY ROOSEVELT	STATE MONT
---------------------------------	---------------------------	---------------------	---------------

OPERATION		CASING	MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY		SURFACE	HOLE	PITS	PUMP SIZE x IN	ANNULAR VEL. (FT/MIN)
DRAINING		8 5/8 IN. at 1149 FT.	332	300	5 1/2 x 14	OPPOSITE DP 197
BIT SIZE (IN)	NO	INTERMEDIATE	TOTAL CIRCULATING VOLUME		PUMP MAKE	OPPOSITE COLLAR
7 3/8	41	IN. at FT.	632		EM500	358
DRILL PIPE SIZE	TYPE	PRODUCTION OR LINE	IN STORAGE		MODEL	
4 1/2	2-H	IN. at FT.			550	
DRILL COLLAR	LENGTH	MUD TYPE			BBL/STROKE	CIRCULATING
SIZE 6 1/4	509	SALT GEL - STARCH			126	PRESSURE PSI 800
					BBL/MIN	BOTTOMS UP (MIN) 41
					8.0	SYSTEM
						TOTAL (MIN) 79

SAMPLE FROM	2 FLOWLINE	PIT	MUD PROPERTIES	DAILY COST	CUMULATIVE COST
FLOWLINE TEMPERATURE	132	OF		1279	9468

TIME SAMPLE TAKEN	7:30	MUD PROPERTIES SPECIFICATIONS
-------------------	------	-------------------------------

DEPTH (FT)	5194	WEIGHT	145	VISCOSITY	20-22	FILTRATE
------------	------	--------	-----	-----------	-------	----------

WEIGHT <input checked="" type="checkbox"/> (PPG) <input type="checkbox"/> (LB/ CU. FT) :	10.4	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN	<input type="checkbox"/> DRILLING CONTRACTOR
--	------	---	--

MUD GRADIENT (PSI/FT)	5408	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE	<input type="checkbox"/> OTHER
-----------------------	------	--	--------------------------------

FUNNEL VISCOSITY (SEC/QT.) API AT _____ °F	33	STARCH - 0.25/100
--	----	-------------------

PLASTIC VISCOSITY CP AT _____ °F	6	SINCE - 8.5% / 100M CM AS PERMIL
		FORM 15 17 18

YIELD POINT (LB/100 SQ. FT.)	0	FOR 13-11-11
	0	9.11 2.51 1.0 1.0

GEL STRENGTH (LB/100 SQ. FT.) 10 SEC/10 MIN.	3-4	221 GEL - 10.58/100
--	-----	---------------------

PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER	72	645	1001	25	116	544
---	----	-----	------	----	-----	-----

FILTRATE API (ML/30 MIN)	1.6	SALT = KBRK SALT BAC FULL WITH
	1.7	

API HT-HP FILTRATE (ML/30 MIN.)	0 _F	11	1" STREAM THRU 17 (APPROX 25 SX/2)
---------------------------------	----------------	----	------------------------------------

CAKE THICKNESS 32nd IN. API	HT HP	2/2		
-----------------------------	-------	-----	--	--

DATE	THRESHOLD 5280 IN. 871	TIME	12	MICA - 5 SX/TOUR
P-AI KALINITY (PF)	A	PM	1	

METHYL ORANGE ALKALINITY:	0.44	1.3	1.4
---------------------------	------	-----	-----

CHROMATE 5.5X / FOUR DAY LITES ONLY

□ G.P.G. 290,000	□ G.P.G. 176,000	
CALCIUM □ P.P.M.	□ CRY. (P.P.M.)	

CALCIUM (P.P.M.)	<input type="checkbox"/> GYP (P.P.B)	14VY	RUN GOOD 1" STREAM SALT H ₂ O
SAND CONTENT (% BY VOL)			

BOARD CONTENT (% BY VOL)	TR	
SOLIDS CONTENT (% BY VOL)	TR	

SOLIDS CONTENT (% BY VOL)	3 1/2	DUMP AND CLEAN PITS AS NEEDED
OIL CONTENT (% BY VOL)	2	

[illegible]

WATER CONTENT (% BY VOL.)	46.62
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud)	1

METHYLENE BLUE CAPACITY		□ (equiv. #/Bbl. bent.)	
1	0.14	2	0.14

[illegible]

Remarks and Recommendations:

STARCH - 24

SALT GEL - 28

SALT - 34

CHROMATE - 1

MAR02-0300

MAR-300

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RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-17 1981 DEPTH 4664
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLING 3 ADDRESS AIC SPUD DATE 8-11-81
REPORT FOR MR. WALT DYER REPORT FOR MR. BURTON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E
WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>DRILLING</u>		SURFACE <u>8 5/8</u> IN. at <u>1149</u> FT.		HOLE <u>8 9/4</u> PITS <u>200</u>		PUMP SIZE x IN <u>5 1/2</u> x <u>1 1/4</u>	
BIT SIZE (IN) <u>7 7/8</u> NO. <u>3</u>		INTERMEDIATE IN. at _____ FT.		TOTAL CIRCULATING VOLUME <u>594</u>		PUMP MAKE <u>ENACD</u> MODEL <u>550</u>	
DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>S-H</u>		PRODUCTION OR LINE IN. at _____ FT.		IN STORAGE _____		BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	
DRILL COLLAR SIZE <u>6 1/4</u> LENGTH <u>509</u>		MUD TYPE <u>SALT GEL - STARCH</u>		BBL/MIN <u>8.0</u>		CIRCULATING PRESSURE PSI <u>900</u>	
SAMPLE FROM _____ FLOWLINE _____ PIT _____		MUD PROPERTIES		DAILY COST <u>1200</u>		CUMULATIVE COST <u>6440</u>	
FLOWLINE TEMPERATURE <u>128</u> °F							

TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT) <u>4664</u>		WEIGHT <u>10.5</u> VISCOSITY <u>3032</u> FILTRATE <u>20cc</u>	
WEIGHT (PPG) (LB./CU. FT) <u>10.5</u>		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
MUD GRADIENT (PSI/FT) <u>0.546</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
FUNNEL VISCOSITY (SEC./QT.) API AT _____ °F <u>34</u>		<u>STARCH - 594/TON OR AS NEEDED</u>	
PLASTIC VISCOSITY CP AT _____ °F <u>11</u>		<u>FOR 20cc WL</u>	
YIELD POINT (LB./100 SQ. FT.) <u>7</u>		<u>SALT GEL - 594/TON</u>	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>3-7</u>		<u>CHROMATE - 194 DATES ONLY</u>	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>		<u>SALT - KEEP SALT MOL FULL WITH</u>	
FILTRATE API (ML/30 MIN) <u>18</u>		<u>1" STREAM SALT H2O THRU IT.</u>	
API HT-HP FILTRATE (ML/30 MIN.) _____ °F _____		<u>RUN 1" STREAM SALT H2O</u>	
CAKE THICKNESS 32nd IN. API _____ HT-HP _____		<u>DUMP & CLEAN PITS AS NEEDED</u>	
P-ALKALINITY (PF.) & PM _____			
METHYL ORANGE ALKALINITY _____			
SALT <input type="checkbox"/> P.P.M. <u>243700</u> CHLORIDE <input type="checkbox"/> P.P.M. <u>178000</u>			
<input type="checkbox"/> G.P.G. _____			
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u>1404</u>			
SAND CONTENT (% BY VOL.) <u>TR</u>			
SOLIDS CONTENT (% BY VOL.) <u>3 1/2</u>			
OIL CONTENT (% BY VOL.) <u>0</u>			
WATER CONTENT (% BY VOL.) <u>96 1/2</u>			
METHYLENE BLUE CAPACITY (ml/ml mud) (equiv. #/Bbl. bent.) _____			
<u>CHROMATE</u> <u>950</u>			

Remarks and Recommendations: _____
DE-FILTER WT. UNDER - 11.7
RESERVE PIT H2O 134,000 CHLOR
221,100 - SALT
STARCH - 21
SALT GEL - 34
SALT - 25
CHROMATE - 1

MAR02-0302

MAR-302

SERVICE ENGINEER Walt Dyer TELEPHONE 572-7857 EXCHANGE WILL NO MOBILE SERVICE _____
 ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS. HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-16-81 DEPTH 4300
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR Texas Oil & Gas CONTRACTOR Bud RIG NO. 5
ADDRESS Billings ADDRESS _____ SPUD DATE 8-11-81
REPORT FOR MR. Walt Dyer REPORT FOR MR. _____ SECTION, TOWNSHIP, RANGE 22-28N-51E
WELL NAME AND NO. Bushles #1 FIELD OR BLOCK NO. W/C COUNTY Roosevelt STATE Mont

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>Pack Surin</u>		SURFACE <u>888 IN. at 1149 FT.</u>		HOLE PITS <u>272 300</u>		PUMP SIZE x IN <u>5 1/2 x 14</u>	
BIT SIZE (IN) <u>2 7/8</u>	NO <u>3</u>	INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME <u>572</u>		PUMP MAKE <u>Ensco</u>	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>KH</u>	PRODUCTION OR LINE IN. at FT.		IN STORAGE		MODEL <u>SSD</u>	
DRILL COLLAR SIZE	LENGTH	MUD TYPE <u>Salt Gel - Stand</u>		BBU/STROKE <u>126</u>		STROKE/MIN <u>64</u>	
				BBU/MIN <u>80</u>		ANNULAR VEL. (FT./MIN) <u>197</u>	
						OPPOSITE DP <u>358</u>	
						CIRCULATING PRESSURE PSI <u>900</u>	
						BOTTOMS UP (MIN) <u>33</u>	
						SYSTEM TOTAL (MIN) <u>71</u>	

SAMPLE FROM _____ FLOWLINE _____ PIT _____
FLOWLINE TEMPERATURE _____ OF _____ MUD PROPERTIES

TIME SAMPLE TAKEN		MUD PROPERTIES	
DEPTH (FT) <u>4300</u>			
WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB./CU. FT.) <u>10.5</u>			
MUD GRADIENT (PSI/FT) <u>5408</u>			
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF <u>32</u>			
PLASTIC VISCOSITY CP AT _____ OF <u>7</u>			
YIELD POINT (LB./100 SQ. FT.) <u>5</u>			
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>2-3</u>			
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.0</u>			
FILTRATE API (ML/30 MIN) <u>18.0</u>			
API HT-HP FILTRATE (ML/30 MIN.) _____ OF			
CAKE THICKNESS 32nd IN. API _____ HT-HP <u>2 1/2</u>			
P-ALKALINITY (PF) & PM _____			
METHYL ORANGE ALKALINITY _____			
SALT <input checked="" type="checkbox"/> P.P.M. <u>277,200</u> CHLORIDE <input checked="" type="checkbox"/> P.P.M. <u>168,000</u>			
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) _____			
SAND CONTENT (% BY VOL) <u>TR</u>			
SOLIDS CONTENT (% BY VOL) <u>7 1/2</u>			
OIL CONTENT (% BY VOL) <u>0</u>			
WATER CONTENT (% BY VOL) <u>96 1/2</u>			
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u>Chromate 950</u>			

DAILY COST 1800 CUMULATIVE COST 5740

MUD PROPERTIES SPECIFICATIONS
WEIGHT 10.5 VISCOSITY 30-32 FILTRATE 20cc
BY AUTHORITY: ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR
☐ OPERATOR'S REPRESENTATIVE ☐ OTHER

Stand - 558 / Tour or as needed for 20cc wt.
Salt Gel - 558 / Tour
Chromate - 158 day lites only
Salt - keep Salt bbl full with 1" stream salt H₂O thru it
Run good 1" stream salt H₂O
Dump & clear pits as needed

Remarks and Recommendations:

Stand - 37
S Gel - 11
Salt - 28
Bud - 2

MAR02-0303

MAR-303

SERVICE ENGINEER Rock Vestal TELEPHONE 572-7857 EXCHANGE Williston MOBILE SERVICE _____ WHSE NO. AND LOCATION _____

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-15 19 81 DEPTH 4025

API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLING ADDRESS RIC SPUD DATE 8-11-81
REPORT FOR MR. WALT REPORT FOR MR. BYRON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>DRILLING</u>		SURFACE <u>858</u> IN. at <u>1149</u> FT.		HOLE <u>256</u> PITS <u>300</u>		PUMP SIZE <u>5 1/2</u> x <u>14</u> IN.	
BIT SIZE (IN) <u>7 3/4</u> NO. <u>3</u>		INTERMEDIATE <u> </u> IN. at <u> </u> FT.		TOTAL CIRCULATING VOLUME <u>556</u>		PUMP MAKE <u>ENSCO</u> MODEL <u>552</u>	
DRILL PIPE SIZE <u>4 1/2</u> TYPE <u>X-11</u>		PRODUCTION OR LINE <u> </u> IN. at <u> </u> FT.		IN STORAGE <u> </u>		BBL/STROKE <u>126</u> STROKE/MIN <u>6.4</u>	
DRILL COLLAR SIZE <u>6 1/2</u> LENGTH <u>509</u>		MUD TYPE <u>Salt Gel</u>		BBL/MIN <u>8.0</u>		CIRCULATING PRESSURE PSI <u>800</u>	
						BOTTOMS UP (MIN) <u>32</u>	
						SYSTEM TOTAL (MIN) <u>64.5</u>	

SAMPLE FROM ☒ FLOWLINE ☐ PIT FLOWLINE TEMPERATURE 117 °F MUD PROPERTIES DAILY COST 2200 CUMULATIVE COST 3940

TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT) <u>4025</u>		WEIGHT <u>10.4</u> VISCOSITY <u>32-34</u> FILTRATE <u>20cc</u>	
WEIGHT <u>10.4</u> PPG <input type="checkbox"/> (LB./CU. FT.)		BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	
MUD GRADIENT (PSI/FT) <u>5408</u>		<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
FUNNEL VISCOSITY (SEC./QT.) API AT <u> </u> °F <u>34</u>		<u>STARCH - 55V1 TOVA QA AS</u>	
PLASTIC VISCOSITY CP AT <u> </u> °F <u>9</u>		<u>NEEDED FOR 20CC WL.</u>	
YIELD POINT (LB./100 SQ. FT.) <u>9</u>		<u>SALT GEL - 55V1 TOVA</u>	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN. <u>3/6</u>		<u>CHROMATE - 15X1 TOVA</u>	
PH <input checked="" type="checkbox"/> STRIP <input type="checkbox"/> METER <u>7.2</u>		<u>SALT - KEEP SALT DBL FULL</u>	
FILTRATE API (ML/30 MIN) <u>28</u>		<u>AT ALL TIMES.</u>	
API HT-HP FILTRATE (ML/30 MIN.) <u> </u> °F		<u>RON GOOD 1" STREAM SALT #20</u>	
CAKE THICKNESS 32nd IN. API <u> </u> HT-HP <u> </u>		<u>PUMP AND CLEAN PITS AS NEEDED</u>	
PALKALINITY (PF.) & PM <u> </u>			
METHYL ORANGE ALKALINITY <u> </u>			
SALT <input checked="" type="checkbox"/> P.P.M. <u>264,000</u> CHLORIDE <input checked="" type="checkbox"/> P.P.M. <u>160,000</u>			
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB) <u> </u>			
SAND CONTENT (% BY VOL.) <u>1R</u>			
SOLIDS CONTENT (% BY VOL.) <u>4 1/2</u>			
OIL CONTENT (% BY VOL.) <u>0</u>			
WATER CONTENT (% BY VOL.) <u>95 1/2</u>			
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.) <u> </u>			
<u>CHROMATE</u> <u>175</u>			

Remarks and Recommendations: Starch - 50
Salt Gel - 62
Preservative - 1
Lime - 2
Floc - 2

Thank You

Ruth Vestal 572-7857 WILL N.D.
SERVICE ENGINEER TELEPHONE EXCHANGE MOBILE SERVICE WHSE. NO. AND LOCATION

MAR02-0304
MAR-304

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-14 19 81 DEPTH 3485

API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR TEXAS OIL & GAS CONTRACTOR BIRD RIG NO. 5
ADDRESS BILLINGS ADDRESS BIG SPUD DATE 8-11-81
REPORT FOR MR. WALT DYER REPORT FOR MR. BURTON HANSON SECTION, TOWNSHIP, RANGE 22-28N-51E

WELL NAME AND NO. BUCKLES #1 FIELD OR BLOCK NO. W/C COUNTY ROOSEVELT STATE MONT

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>PAULING Trip</u>		SURFACE <u>858</u> IN. at <u>1149</u> FT.		HOLE <u>220</u>	PITS <u>300</u>	PUMP SIZE x IN <u>54</u> x <u>14</u>	ANNULAR VEL. (FT./MIN) OPPOSITE DP <u>187</u>
BIT SIZE (IN) <u>7 7/8</u>	NO. <u>3</u>	INTERMEDIATE IN. at _____ FT.		TOTAL CIRCULATING VOLUME <u>520</u>		PUMP MAKE <u>EMSCO</u> MODEL <u>550</u>	OPPOSITE COLLAR <u>358</u>
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>N-N</u>	PRODUCTION OR LINE IN. at _____ FT.		IN STORAGE		BBL/STROKE <u>126</u> STROKE/MIN <u>64</u>	CIRCULATING PRESSURE PSI <u>1000</u>
DRILL COLLAR SIZE <u>6 1/4</u>	LENGTH <u>509</u>	MUD TYPE <u>Salt Water - Starch</u>				BBL/MIN <u>8.0</u>	BOTTOMS UP (MIN) <u>18</u> SYSTEM TOTAL (MIN) <u>65</u>

SAMPLE FROM _____ FLOWLINE _____ OF PIT _____ MUD PROPERTIES _____
FLOWLINE TEMPERATURE _____ OF _____ DAILY COST 50 CUMULATIVE COST 1740

TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT.)	<u>1800</u>	WEIGHT <u>9.8</u>	VISCOSITY <u>30-71</u> FILTRATE <u>15-20cc</u>
WEIGHT <input checked="" type="checkbox"/> (PPG) <input type="checkbox"/> (LB./CU. FT.)	<u>9.7</u>	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER
MUD GRADIENT (PSI/FT.)	<u>5044</u>	<u>Starch - 10 sx / hour or as needed for pack</u>	
FUNNEL VISCOSITY (SEC./QT.) API AT _____ OF	<u>39</u>	<u>Salt Gel - 10 sx / hour</u>	
PLASTIC VISCOSITY CP AT _____ OF	<u>1</u>	<u>Bioher or Preservative - Mix 2 every 100</u>	
YIELD POINT (LB./100 SQ. FT.)	<u>1</u>	<u>Chromate - Mix 2 sx at 30 min / sx</u>	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.	<u>0-0</u>	<u>critical treatment then 1/2 sx on</u>	
PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER	<u>8.0</u>	<u>day 100s each day</u>	
FILTRATE API (ML/30 MIN)	<u>20.4</u>	<u>Salt - keep Salt 667 full at all</u>	
API HT-HP FILTRATE (ML/30 MIN.) _____ OF	<u>1/32</u>	<u>Times</u>	
CAKE THICKNESS 32nd IN. API _____ HT-HP _____	<u>124,000</u>	<u>Run Good 1-1 1/2 inch stirrer</u>	
P-ALKALINITY (PF.) & PM	<u>Hwy</u>	<u>Salt H₂O</u>	
METHYL ORANGE ALKALINITY	<u>0</u>		
SALT <input checked="" type="checkbox"/> P.P.M. <u>204,600</u> CHLORIDE <input checked="" type="checkbox"/> P.P.M. <u>124,000</u>	<u>0</u>		
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)	<u>TR</u>		
SAND CONTENT (% BY VOL.)	<u>0</u>		
SOLIDS CONTENT (% BY VOL.)	<u>0</u>		
OIL CONTENT (% BY VOL.)	<u>100</u>		
WATER CONTENT (% BY VOL.)	<u>100</u>		
METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)	<u>Chromate 200</u>		

Remarks and Recommendations: Floc - 1 Materials for 8-13-81
Line - 1

MAR02-0305

MAR-305

Red Vestal
Terry Henderson SERVICE ENGINEER
TELEPHONE 572-2857 EXCHANGE Williston MOBILE SERVICE _____ WHSE. NO. AND LOCATION _____

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-13 1981 DEPTH 1210

API WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>TEXAS OIL LOGS</u>	CONTRACTOR <u>BIAD</u>	RIG NO. <u>5</u>
ADDRESS <u>BILLINGS</u>	ADDRESS <u>AIG</u>	SPUD DATE <u>8-11-81</u>
REPORT FOR MR. <u>WALT DYER</u>	REPORT FOR MR. <u>BYRON HANSON</u>	SECTION, TOWNSHIP, RANGE <u>22-28N-51E</u>

WELL NAME AND NO. <u>BUCKLES AFF 1</u>	FIELD OR BLOCK NO. <u>WIC</u>	COUNTY <u>ROOSEVELT</u>	STATE <u>MONT</u>
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OPERATION		CASING	MUD VOLUME (BBL)		CIRCULATION DATA	
PUMP SIZE x IN <u>5 1/2 x 1 1/4</u>	ANNULAR VEL. (FT./MIN) <u>197</u>	PRESENT ACTIVITY <u>Make up</u>	SURFACE <u>378 IN. at 1149 FT.</u>	HOLE PITS <u>70 300</u>	OPPOSITE DP <u>197</u>	OPPOSITE COLLAR <u>358</u>
BIT SIZE (IN) <u>7 7/8</u>	NO <u>2</u>	INTERMEDIATE <u>IN. at 1149 FT.</u>	TOTAL CIRCULATING VOLUME <u>370</u>	PUMP MAKE <u>EMSCO</u>	MODEL <u>550</u>	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>XH</u>	PRODUCTION OR LINE <u>IN. at 1149 FT.</u>	IN STORAGE	BBU STROKE <u>126</u>	STROKE/MIN <u>64</u>	CIRCULATING PRESSURE PSI <u>126</u>
DRILL COLLAR SIZE <u>6 1/2</u>	LENGTH <u>509</u>	MUD TYPE <u>ON WATER</u>		BBU/MIN <u>8.0</u>		BOTTOMS UP (MIN) SYSTEM TOTAL (MIN)

SAMPLE FROM FLOWLINE	PIT	MUD PROPERTIES	DAILY COST <u>0</u>	CUMULATIVE COST <u>1690</u>
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TIME SAMPLE TAKEN		MUD PROPERTIES SPECIFICATIONS	
DEPTH (FT) <u>1210</u>	WEIGHT <input type="checkbox"/> (PPG) <input type="checkbox"/> (LB./CU. FT.)	WEIGHT	VISCOSITY
MUD GRADIENT (PSI/FT.)	FUNNEL VISCOSITY (SEC./QT.) API AT <u>0F</u>	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	FILTRATE
PLASTIC VISCOSITY CP AT <u>0F</u>	YIELD POINT (LB./100 SQ. FT.)	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.	PH <input type="checkbox"/> STRIP <input type="checkbox"/> METER		
API HT-HP FILTRATE (ML/30 MIN.) <u>0F</u>	CAKE THICKNESS 32nd IN. API HT-HP		
METHYL ORANGE ALKALINITY	P-ALKALINITY (PF.) & PM		
SALT <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G.	CHLORIDE <input type="checkbox"/> P.P.M. <input type="checkbox"/> G.P.G.		
CALCIUM <input type="checkbox"/> P.P.M. <input type="checkbox"/> GYP (PPB)	SAND CONTENT (% BY VOL.)		
SOLIDS CONTENT (% BY VOL.)	OIL CONTENT (% BY VOL.)		
WATER CONTENT (% BY VOL.)	METHYLENE BLUE CAPACITY <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/Bbl. bent.)		

Remarks and Recommendations: _____

MAR02-0306

Signature: <u>Terry Henderson</u>	TELEPHONE <u>572-7857</u>	EXCHANGE <u>Will.</u>	MOBILE SERVICE <u>Yoy</u>
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MAR-306

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

RED RIVER MUD CO.

115 8th Street West
Williston, North Dakota 58801
Phone 701-572-7857



REPORT NO. _____

DATE 8-12 19 81 DEPTH 859
API WELL NO. _____ STATE _____ COUNTY _____ WELL _____ S/T _____

OPERATOR <u>Texas Oil & Gas</u>		CONTRACTOR <u>Bird</u>		RIG NO. <u>5</u>	
ADDRESS <u>Billings</u>		ADDRESS <u>Rig</u>		SPUD DATE <u>8-11-81</u>	
REPORT FOR MR. <u>Walt Oyer</u>		REPORT FOR MR. <u>Bryan Hanson</u>		SECTION, TOWNSHIP, RANGE <u>27 - 28N - 51E</u>	
WELL NAME AND NO. <u>Buckles B² 1</u>		FIELD OR BLOCK NO. <u>W/C</u>		COUNTY <u>Roosevelt</u> STATE <u>Mont</u>	
OPERATION <u>Drilling Surface</u>		CASING IN. at _____ FT.		MUD VOLUME (BBL)	
PRESENT ACTIVITY <u>Drilling Surface</u>		SURFACE IN. at _____ FT.		HOLE PITS	
BIT SIZE (IN.) <u>12 1/4</u>		NO <u>1</u>		INTERMEDIATE IN. at _____ FT.	
DRILL PIPE SIZE <u>4 1/2</u>		TYPE <u>8H</u>		PRODUCTION OR LINE IN. at _____ FT.	
DRILL COLLAR SIZE <u>6 1/4</u>		LENGTH <u>509</u>		MUD TYPE	
SAMPLE FROM FLOWLINE _____ PIT _____		FLOWLINE TEMPERATURE _____ °F		MUD PROPERTIES	
TIME SAMPLE TAKEN		_____		DAILY COST <u>900</u>	
DEPTH (FT.)		_____		CUMULATIVE COST <u>900</u>	
WEIGHT □ (PPG) □ (LB./CU. FT.)		_____		MUD PROPERTIES SPECIFICATIONS	
MUD GRADIENT (PSI/FT.)		_____		WEIGHT _____ VISCOSITY _____ FILTRATE _____	
FUNNEL VISCOSITY (SEC./QT.) API AT _____ °F		_____		BY AUTHORITY: □ OPERATOR'S WRITTEN □ DRILLING CONTRACTOR	
PLASTIC VISCOSITY CP AT _____ °F		_____		□ OPERATOR'S REPRESENTATIVE □ OTHER	
YIELD POINT (LB./100 SQ. FT.)		_____		Vis - Maintain 40-45 Vis	
GEL STRENGTH (LB./100 SQ. FT.) 10 SEC./10 MIN.		_____		with Salt Gel & Lime if needed	
PH □ STRIP □ METER		_____		10% Gel to 1% Lime	
FILTRATE API (ML/30 MIN.)		_____		WT. keep WT up over 10.1 with	
API HT-HP FILTRATE (ML/30 MIN.) _____ °F		_____		Salt	
CAKE THICKNESS 32nd IN. API _____ HT-HP _____		_____		If we hit the water flow then	
P-ALKALINITY (PF.) & PM		_____		we will mix the Barite for the	
METHYL ORANGE ALKALINITY		_____		necessary wt. to kill it	
SALT □ P.P.M. CHLORIDE □ P.P.M.		_____		Water - Run enough water to keep	
□ G.P.G. □ G.P.G.		_____		Vis at 40-45 and keep pit	
CALCIUM □ P.P.M. □ GYP (PPB)		_____		Volume up	
SAND CONTENT (% BY VOL.)		_____			
SOLIDS CONTENT (% BY VOL.)		_____			
OIL CONTENT (% BY VOL.)		_____			
WATER CONTENT (% BY VOL.)		_____			
METHYLENE BLUE CAPACITY □ (ml/ml mud) □ (equiv. #/Bbl. bent.)		_____			

Remarks and Recommendations:

80 - Salt Gel
30 - Lime
40 - Salt

MAR02-0307

Handwritten signature
104

Handwritten signature
SERVICE ENGINEER

572-7857
TELEPHONE

MAR-307

ANY OPINION AND/OR RECOMMENDATION, EXPRESSED ORALLY OR WRITTEN HEREIN, HAS BEEN PREPARED CAREFULLY AND MAY BE USED IF THE USER SO ELECTS, HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE BY OURSELVES OR OUR AGENTS AS TO ITS CORRECTNESS OR COMPLETENESS, AND NO LIABILITY IS ASSUMED FOR ANY DAMAGES RESULTING FROM THE USE OF SAME.

11

—19—

Tour — Midnight - 8 a.m.		Hrs.
Specify actual hours worked		
Driller	Steve. Bactas	8
Derrick	Dough Lee	8
Motor	Craig Black	8
Floor	Gene Beard	8
Floor	Gene Bactas	8
Floor		
Injuries:		
Fires:		
Tour — 8 a.m. to 4 p.m.		Hrs.
Specify actual hours worked		
Driller	SAM SAGASER	8
Derrick	DAN LEE	8
Motor	CRAIG BLOCK	8
Floor	SHANE LAWSON	8
Floor	JAY HALVERSON	8
Floor		
Mechanic		
Injuries:		
Fires:		
Tour — 4 p.m. to Midnight		Hrs.
Specify actual hours worked		
Driller	Bill Peterson	8
Derrick	Clayton Ashaim	8
Motor	Morris Meland	8
Floor	Paul Blans	8
Floor	Troy Peterson	8
Floor		
Injuries:		
Fires:		
Toolpush		
Signalman		
SAFETY TALKS—		
Subject:-		
MAR02-0308		
MAR-308		
Weather:-		
Road	Conditions:-	

CUSTOMER'S COPY

RIG NO. 5

DATE 8-12 19 81

REMARKS	TIME			Tour — Midnight - 8 a.m.	
	START	STOP	INTVL	Specify actual hours worked	Hrs
Rig Serv	12:00	12:15	1/4	Driller Steve Bactus	8
06-11 Surface Hole & Survey	12:15	8:00	7 3/4	Derrick Dwight Lee	8
			8	Motor Cady Black	8
				Floor Bruce Beard	8
				Floor Scott Haskins	8
				Floor	
				Injuries:	
				Fires:	
Bottom lost - Full				Tour — 8 a.m. to 4 p.m.	
Back track 6' <i>Shirley</i>				Specify actual hours worked	Hrs
Rig Serv & Survey	8:00	8:15	1/4	Driller SAM SAGASER	8
Trip BIT	8:15	9:00	3/4	Derrick DAN LEE	8
Wid Surface BIT	9:00	10:00	1	Motor SCOTT HASKINS	8
Trip In Hole	10:00	11:00	1	Floor SHANE LAWSON	8
Circulate Hole	11:00	11:15	1/4	Floor JAY HALVERSON	8
Drly	11:15	3:00	3 3/4	Floor	
Circulate	3:00	3:15	1/4	Mechanic	
Drop Survey, Trip Out	3:15			Injuries:	
Short Trip		4:00	3/4	Fires:	
<i>Shirley</i>				Tour — 4 p.m. to Midnight	
G.I.H "Tight."	4:00	5:15	1 1/4	Specify actual hours worked	Hrs
Circ	5:15	6:00	3/4	Driller Bill Peterson	8
trip out of hole.	6:00	7:00	1	Derrick Clayton Aschey	8
Run casing.	7:00	9:00	2	Motor Morris Meland	8
Cement Csg.	9:00	9:30	1/2	Floor Paul Bloom	8
W.C. in hole	9:00	9:30	1/2	Floor Troy Peterson	8
Cement Csg.	9:30	10:45	1 1/4	Floor	
W.O.C.	10:45	12:00	1 1/4	Injuries:	
				Fires:	
EQUIPMENT CHANGES			DRILLER'S SIGNATURE	TRANSFER =	
ITS 8 5/8 CSG				Toolpush	
7 6/8 CSG				Signature <i>[Signature]</i>	
A.M.				SAFETY TALKS	
P.M.				Subject	
GENERAL: —	COAL ON HAND	TONS	TOTAL COMPANY TIME HRS.	TOTAL CONTRACTOR'S TIME HRS.	Weather
					Road Conditions
	Approved by Operator's Representative				
	Approved by Toolpusher				
			MAR-309		
			MAR02-0309		

CUSTOMER'S COPY

MAR-309

MAR02-0309

TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly					
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.			
	MUD				12 mn.	2 a.m.	4 a.m.	6 a.m.	PUMP				12 mn.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS				
	WEIGHT				No. 1				No. 2				1				250				
	VISCOSITY				MODEL				MODEL				3				58				
	GEL				W.L.				F.C.				pH.				GENERAL				
	ADDITIVES				Change oil + Fuel Filter on 1 Pump + light plant				SURVEYS				At Feet				Degrees				
	Drilling Line Record				Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool				
	1 1/2				Union	8	0	0	0	0	0	0	0	0	0	0	0				
	TOUR 8 AM TO 4 PM				From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly	
1210				No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
MUD				8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP				8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS					
WEIGHT				No. 1				No. 2				1				50					
VISCOSITY				MODEL				MODEL				2				90 OFF					
GEL				W.L.				F.C.				pH.				GENERAL					
ADDITIVES				Change Out Lower Bullhead				SURVEYS				At Feet				Degrees					
Drilling Line Record				Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool					
1 1/2				Union	8	0	0	0	0	0	0	0	0	0	0	0	0				
TOUR 4 PM TO MIDNIGHT				From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
1200				No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
MUD				4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS					
WEIGHT				No. 1				No. 2				1				58					
VISCOSITY				MODEL				MODEL				2				106					
GEL				W.L.				F.C.				pH.				GENERAL					
ADDITIVES				Change Out Liner on				SURVEYS				At Feet				Degrees					
Drilling Line Record				Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool					
1 1/2				Union	8	0	0	0	0	0	0	0	0	0	0	0	0				
TOUR MIDNIGHT TO 8 AM				From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
1200				No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cased	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
MUD				4 p.m.	6 p.m.	8 p.m.	10 p.m.	PUMP				4 p.m.	6 p.m.	8 p.m.	10 p.m.	MOTOR HOURS					
WEIGHT				No. 1				No. 2				1				58					
VISCOSITY				MODEL				MODEL				2				106					
GEL				W.L.				F.C.				pH.				GENERAL					
ADDITIVES				Change Out Liner on				SURVEYS				At Feet				Degrees					
Drilling Line Record				Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool					
1 1/2				Union	8	0	0	0	0	0	0	0	0	0	0	0	0				

REMARKS	W.D.C. Clean mud tanks	12:00		
	Can pipe out of tubs			
	Work on pumps + Shaker			
	Change out Kelly Hose			
	Ag Celler 2' deeper	8:00	8	
	DRILLER'S SIGNATURE			
	W.D. well head	8:00	9:30	1 1/2
	Cut casing, weld on	9:30		
	WELL HEAD	2:30	5	
	Nipple up B.O.P.	2:30	4:00	1 1/2
DRILLER'S SIGNATURE				
Nipple up B.O.P.	4:00	8:00	4	
Pressure up "1200 PST."	8:00	8:30	1/2	
G.I.H. (w/ Rig)	8:30	9:15	3/4	
Drill Plug	9:15	10:00	3/4	
Dr/g	10:00	12:00	2	
DRILLER'S SIGNATURE				
EQUIPMENT CHANGES				TRANSFER =
Kell. Hose				
2 1/2" x 3" B.O.P. 3 sides				
2 rods + 2 heads, 8 valves + seats				
COAL ON HAND				TONS
TOTAL COMPANY TIME				HRS.
TOTAL CONTRACTOR'S TIME				HRS.
Approved by Operator's Representative				
Approved by Toolpusher				
Weather				
Road				
Conditions				

MAR-310

MAR02-0310

CUSTOMER'S COPY

DIRECTIONS TO WELL _____

DAILEY-DRILLING LOG

RIG NO.

LOCATION

Buckles B-1

LSD

55

TV

RI

NO.



10

IV.

22

100

10

DIRECTIONS TO WELL _____

MAILING POINT

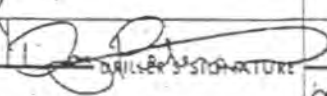
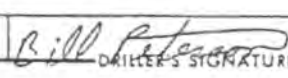
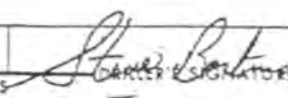


SHIP
POINT

MILES
MOVEDDATE 8-10

1968

DATE 8-16 19 81

TOUR	From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fr. up Kelly											
	4192		108		4300		6 1/4		83		40		—		19		6 1/4		2 1/4		590																			
MIDNIGHT TO 8 AM	No.	Size	Type	Jct./W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																						
	3	7 7/8	SEAL	3-15	768809	30	60	316	18				850	64																										
																			MUD		12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	PUMP		12 m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS		Next Oil Change	
	WEIGHT		10.4	10.5	10.5	10.5	No. 1		PRES. SURE	800	800	850	850	No. 2		PRES. SURE	800	800	850	850	No. 1		PRES. SURE	800	800	850	850	No. 2		PRES. SURE	800	800	850	850	No. 1		PRES. SURE	800	800	850
VISCOSITY		29	30	32	32	No. 1		S.P.M.	64	64	64	64	No. 2		S.P.M.	64	64	64	64	No. 1		S.P.M.	64	64	64	64	No. 2		S.P.M.	64	64	64	64	No. 1		S.P.M.	64	64	64	64
GEL		18	18	19	18	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 2		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2	No. 2		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	
W.L.		F.C.		D.H.		GENERAL		Cleaned suction Tank										SURVEYS		At Feet		Degrees		4		72		5		248		Weather		Water		Temp.		8b		
ADDITIVES		Starch - 1 Chromate - 1 Salt Gel - 10 Salt - 10																																						
Drilling Line Record		Size	Make	Serial No.	No. Lines	Trips	Ton Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Feet Left on Spool																										
4300		130	4430	7	84	41	2	19	1 1/4	2 1/4	590																													
8 AM TO 4 PM	No.	Size	Type	Jct./W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.																						
	2	7 7/8	SEAL	3-15	768809	30	60	486	25				850	64																										
																			MUD		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP		8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS		Next Oil Change	
	WEIGHT		10.5	10.5	10.4	10.4	No. 1		PRES. SURE	850	850	850	850	No. 2		PRES. SURE	850	850	850	850	No. 1		PRES. SURE	850	850	850	850	No. 2		PRES. SURE	850	850	850	850	No. 1		PRES. SURE	850	850	850
VISCOSITY		32	32	31	31	No. 1		S.P.M.	64	64	64	64	No. 2		S.P.M.	64	64	64	64	No. 1		S.P.M.	64	64	64	64	No. 2		S.P.M.	64	64	64	64	No. 1		S.P.M.	64	64	64	64
GEL		18	16	18	18	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 2		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2	No. 2		LINE SIZE	5 1/2	5 1/2	5 1/2	5 1/2	No. 1		LINE SIZE	5 1/2	5 1/2	5 1/2		

REMARKS		TIME		
		START	STOP	INTVL
Drill		12:00	12:45	3/4
✓ Rig		12:45	1:00	1/4
Drill		1:00	6:30	5 1/2
Trip out 9 stands + change out wash pipe		6:30	8:00	1 1/2
				8
4' 6" Bush Tank				
Bottom Tank full				
Des 5 hrs		 <small>DRILLER'S SIGNATURE</small>		
G.T.H.		8:00		
Wash bottom + ✓ Rig			9:00	1
Drig (✓ B.O.P) (400)		9:00	4:00	7
				8
Des 8 hrs				
Drill		 <small>DRILLER'S SIGNATURE</small>		
Rig Seco		4:00	5:15	1 1/2
Drill		5:15	5:30	1/4
		5:30	12:00	6 1/2
				8
Des 4 hrs		 <small>DRILLER'S SIGNATURE</small>		
EQUIPMENT CHANGES		TRANSFER =		
ITS	CSG			
SAX	CEM			
A.M.	P.M.			
COAL ON HAND	TONS	TOTAL COMPANY TIME	TOTAL CONTRACTOR'S TIME	
		HRS.	HRS.	
GENERAL:—		Approved by Operator's Representative  Approved by Toolpusher 		

Tour — Midnight - 8 a.m.		
Specify actual hours worked		Hrs.
Driller	Doug Peterson	8
Derrick	Lyndon Hargenson	8
Motor	Cary Peterson	8
Floor	Robert Charles Lewis	8
Floor	Leon Danielson	8
Floor		
Injuries:		
Fires:		
Tour — 8 a.m. to 4 p.m.		
Specify actual hours worked		Hrs.
Driller	Bill Peterson	8
Derrick	Clyton Asheim	8
Motor	Morris Moland	8
Floor	Paul Blens	8
Floor	Tray Peterson	8
Floor		
Mechanic		
Injuries:		
Fires:		
Tour — 4 p.m. to Midnight		
Specify actual hours worked		Hrs.
Driller	Steve Barnes	8
Derrick	Dwight Lee	8
Motor	Carl Black	8
Floor	Brace Beard	8
Floor	Jack Falwiler	8
Floor		
Injuries:		
Fires:		
Toolpush		
Signature	<i>Dwight Lee</i>	
SAFETY TACKS:—		
Subject:		
MAR02-0313		
MAR-313		
Weather:		
Road	Conditions:	

CUSTOMER'S COPY

TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	4569	81	4650	7 1/4	87	44	—	19	16 1/4	2 1/4	590					23		
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	3	7 7/8	584F	3/15	768809	30	60	666	40			1	850	64				
	MUD 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.5 10.5 10.5 10.5 No. 1 PRES. 850 850 850 850 No. 2 PRES. 250																	
	VISCOSITY 33 33 32 32 MODEL S.P.M. 64 64 64 64 MODEL S.P.M. 138																	
	GEL 16 17 18 15 LINER SIZE 5 1/2 x 16 SURVEYS 1 80																	
	W.L. F.C. P.H. GENERAL Clean Suction Tank 4 186																	
	ADDITIVES: 5 gal - 16 starch - 5 salt - 20 4 186																	
TOUR 8 AM TO 4 PM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	4650	114	4764	7 3/4	87	45	—	19	16 1/4	2 1/4	590					3		
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	3	7 7/8	584F	3/15	768809	30	60	780	47 1/2			1	850	64				
	MUD 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.5 10.5 10.4 10.4 No. 1 PRES. 850 850 850 850 No. 2 PRES. 250																	
	VISCOSITY 34 34 32 32 MODEL S.P.M. 64 64 64 850 MODEL S.P.M. 146																	
	GEL 18 18 16 16 LINER SIZE 5 1/2 x 16 SURVEYS 2 88																	
	W.L. F.C. P.H. GENERAL Clean 2 Comp 4 194																	
	ADDITIVES: 5 gal - 16 starch - 5 salt - 20 4 26																	
TOUR 4 PM TO MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	4764	83	4847	8 1/4	89	46	—	19	16 1/4	2 1/4	590					13		
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	3	7 7/8	584F	3/15	768809	30	60	863	53 1/2			1	850	64				
	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.4 10.4 10.4 10.4 No. 1 PRES. 850 850 850 850 No. 2 PRES. 250																	
	VISCOSITY 30 30 31 31 MODEL S.P.M. 64 64 64 64 MODEL S.P.M. 154																	
	GEL 21 20 18 15 LINER SIZE 5 1/2 x 16 SURVEYS 3 96																	
	W.L. F.C. P.H. GENERAL Clean Suction tank 4 202																	
	ADDITIVES: 5 gal - 16 starch - 16 salt - 10 4 34																	
TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	4847	83	4930	8 1/4	89	46	—	19	16 1/4	2 1/4	590					13		
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	3	7 7/8	584F	3/15	768809	30	60	863	53 1/2			1	850	64				
	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.4 10.4 10.4 10.4 No. 1 PRES. 850 850 850 850 No. 2 PRES. 250																	
	VISCOSITY 30 30 31 31 MODEL S.P.M. 64 64 64 64 MODEL S.P.M. 154																	
	GEL 21 20 18 15 LINER SIZE 5 1/2 x 16 SURVEYS 3 96																	
	W.L. F.C. P.H. GENERAL Clean Suction tank 4 202																	
	ADDITIVES: 5 gal - 16 starch - 16 salt - 10 4 34																	

TOUR MIDNIGHT TO 8 AM	REMARKS	TIME	TOUR — Midnight - 8 a.m. Specify actual hours worked Hrs.		
	Drill	12:00 1:00 1		Driller Doug Peterson 8	
	✓ Rig	1:00 1:15 1/4		Derrick Lyndon Haageneson 8	
	Drill	1:15 4:00 2 3/4		Motor Gary Peterson 8	
	Survey	4:00 4:30 1/2		Floor Robert Charlebois 8	
	Drill	4:30 8:00 3 1/2		Floor Leon Danielson 8	
TOUR 8 AM TO 4 PM	REMARKS	TIME	TOUR — 8 a.m. to 4 p.m. Specify actual hours worked Hrs.		
	Drill	8:00 9:45 1 3/4		Driller Bill Peterson 8	
	✓ Rig (✓ B.O.P.)	9:45 10:00 1/4		Derrick Clayton Aasheim 8	
	Drill	10:00 4:00 6		Motor Morris Meland 8	
					Floor Paul Bloms 8
					Floor Tray Peterson 8
TOUR 4 PM TO MIDNIGHT	REMARKS	TIME	TOUR — 4 p.m. to Midnight Specify actual hours worked Hrs.		
	Drill	4:00 4:15 1/4		Driller Steve Backus 8	
	✓ Rig	4:15 4:30 1/4		Derrick Dwight Lee 8	
	Drill	4:30 6:15 1 3/4		Motor Craig Black 8	
	Clean Suction tank	6:15 6:30 1/4		Floor Buck Reed 8	
	Drill	6:30 7:45 1 1/4		Floor Jack Kulwer 8	
	Change out #2 Pump	7:45 9:30 1 3/4			
	Drill	9:30 12:00 2 3/4			
TOUR MIDNIGHT TO 8 AM	REMARKS	TIME	TOUR — Midnight - 8 a.m. Specify actual hours worked Hrs.		
	Drill	12:00 1:00 1		Driller Doug Peterson 8	
	✓ Rig	1:00 1:15 1/4		Derrick Lyndon Haageneson 8	
	Drill	1:15 4:00 2 3/4		Motor Gary Peterson 8	
	Survey	4:00 4:30 1/2		Floor Robert Charlebois 8	
	Drill	4:30 8:00 3 1/2		Floor Leon Danielson 8	

B.O.P. Tested		Pressure		Packings & Seal Inspected Date		Crown-omatic Chk'd		Fuel on Hand 12:01 a.m.		gals.		Casing Report		FAN		ITS		CSG		TRANSFER =	
Hydril						Rig Savers Chk'd		Fuel Rec'd Today (add)		gals.		TO		K.B. USED		SAX		CEM			
Pipe Rams						Kelly Cock Chk'd		TOTAL		gals.		PLUS				PLUG DOWN		A.M. P.M.			
Blind Rams						Fire Barrels Chk'd		Fuel on Hand 11:39 a.m. (deduct)		gals.		CEMENT RETURNS - (YES/NO)		GENERAL: —							
TOTCO RING ON BIT #		Boiler Operated		Hrs.		Fire Barrels Chk'd		FUEL USED		gals.											
DRILL PIPE		Size		Joint		CLASSIFICATION		TOTAL		Date Sealed		Fr. Drilled since Sealed		Total Fr. Drilled		CALIPER DATE		RESULTS		FROM PIPE RACK	

Approved by Operator's Representative		Approved by Toolpusher		Weather		Road		Conditions	

BIRD OIL EQUIPMENT LTD. (DRILLING DIVISION)

DAILY DRILLING LOG

RIG NO.

LOCATION

Buckles B-1

LSD.

SEC

22

TWP

28N

RGE

58EW

RIG NO.

5

DIRECTIONS TO WELL

MAILING POINT

SHIPPING POINT

MILES MOVED

DATE

8-18

1981

DATE

8-18

1981

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly													
4849	120	4967	7 3/4	89	47	1		19	6 1/4	2 1/2	590				19													
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.											
3	7 7/8	584F	3/15	768809	30	60	983	6 1/4			1	850	64															
MUD			12 m.m.	2 a.m.	4 a.m.	6 a.m.	PUMP			12 m.m.	2 a.m.	4 a.m.	6 a.m.	MOTOR HOURS			Next Oil Change											
WEIGHT	10.5	10.5	10.5	10.5	No. 1	PRES. SURE	850	850	850	No. 2	PRES. SURE			810	170	250												
VISCOSITY	32	32	32	32	MODEL	S.P.M.	64	64	64	MODEL	S.P.M.			60	112													
GEL	17	17	17	15	LINER SIZE		5 1/2	X	1 1/2	LINER SIZE				5 1/2	X	1 1/2												
W.L.			F.C.	pH	GENERAL			CLEAN TANK #2			SURVEYS			At Feet			Degrees											
ADDITIVES			SAIL-15			500-10			STARCH-3			Weather			Temp.													
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date	Slip or Cut	Next Slip	Fl. Left on Spool														
1 1/2	Union		8	2			128				8/16/81	500																
4967	109	5076	7 3/4	90	48	1		19	6 1/4	2 1/2	590				5													
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.											
3	7 7/8	584F	3-15	768809	30	60	1099	64			1	850	64															
MUD			8 a.m.	10 a.m.	12 noon	2 p.m.	PUMP			8 a.m.	10 a.m.	12 noon	2 p.m.	MOTOR HOURS			Next Oil Change											
WEIGHT	10.5	10.5	10.5	10.5	No. 1	PRES. SURE	850	850	850	No. 2	PRES. SURE			810	170	250												
VISCOSITY	33	33	33	33	MODEL	S.P.M.	64	64	64	MODEL	S.P.M.			60	112													
GEL	19	22	19	15	LINER SIZE		5 1/2	X	1 1/2	LINER SIZE				5 1/2	X	1 1/2												
W.L.			F.C.	pH	GENERAL			CLEAN TANK #1			SURVEYS			At Feet			Degrees											
ADDITIVES			SAIL-10			STARCH-10			STARCH-10			Weather			Temp.													
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date	Slip or Cut	Next Slip	Fl. Left on Spool														
1 1/2	Union		8	2			128				8/16/81	500																
5076	16	5093	3 1/4	92	47	2		19	6 1/4	2 1/2	590	7.85			8.20													
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.											
3	7 7/8	584F	3-15	768809	30	60	1103				1	850	64															
4	7 7/8	122	3-15	768809	25	60					1	850	64															
MUD			4 a.m.	6 a.m.	8 a.m.	10 a.m.	PUMP			4 a.m.	6 a.m.	8 a.m.	10 a.m.	MOTOR HOURS			Next Oil Change											
WEIGHT	10.4	10.4			No. 1	PRES. SURE	850	850	850	No. 2	PRES. SURE			800	170	250												
VISCOSITY	31	32			MODEL	S.P.M.	64	64	64	MODEL	S.P.M.			60	112													
GEL	17	18			LINER SIZE		5 1/2	X	1 1/2	LINER SIZE				5 1/2	X	1 1/2												
W.L.			F.C.	pH	GENERAL			CLEAN TANK #1			SURVEYS			At Feet			Degrees											
ADDITIVES			SAIL-12			STARCH-8			STARCH-8			Weather			Temp.													
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date	Slip or Cut	Next Slip	Fl. Left on Spool														
1 1/2	Union		9	2			92				8/16/81	500																
B.O.P. Test			Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown-a-matic Chk'd.	Fuel on Hand 12.01 a.m.			gals.			CASING REPORT			EQUIPMENT CHANGES			TRANSFER #									
Hydril						Rig Savers Chk'd.	Fuel Rec'd Today (add)			gals.			TOTAL			TO			KB. USED	SAT	CEM							
Pipe Rams						Kelly Cack Chk'd.	Fuel on Hand 11.39 a.m. (deduct)			gals.			PLUS			PLUG DOWN			A.M. P.M.	COAL ON HAND			TONS	TOTAL COMPANY TIME	HRS.	TOTAL CONTRACTOR'S TIME	HRS.	
Blind Rams							FUEL USED			gals.			CEMENT RETURNS			YES/NO			GENERAL			Approved by Operator's Representative			Approved by Toolpusher			
TOICO RING ON BIT #			Boiler Operated			Hrs.	Fire Equip. Chk'd.	FUEL USED			gals.			CEMENT RETURNS			YES/NO			GENERAL			Approved by Operator's Representative			Approved by Toolpusher		
DRILL PIPE			Size	Joint	CLASSIFICATION			TOTAL	Date Sonosc	Fl. Drilled since Sonosc	Total Fl. Drilled	CALIFER DATE	RESULTS	FROM PIPE RACK			Weather			Road			Conditions					

REMARKS			TIME			Tour — Midnight - 8 a.m.		
START	STOP	INTVL	Specify actual hours worked			Hrs.		
12:00	12:45	3/4	Driller	Doug Peterson		8		
12:45	1:00	1/4	Derrick	Lyndon Haagenon		8		
1:00	8:00	7	Motor	Gary Peterson		8		
			Floor	Robert Charlesbois		8		
			Floor	Loren Danielson		8		
			Floor					
			Injuries:					
			Fires:					
Back Tank - 1' 10"								
Front Tank - Full								
Des. 8 hrs								
DRILLER'S SIGNATURE								
8:00	8:15	1/4	Tour — 8 a.m. to 4 p.m.					
Specify actual hours worked			Hrs.					
8:15	8:30	1/4	Driller	Bill Peterson		8		
8:30	4:00	7/2	Derrick	Clayton Hasheim		8		
			Motor	Maurice Maland		8		
			Floor	Paul Bloms		8		
			Floor	Troy Peterson		8		
			Floor					
			Mechanic					
			Injuries:					
			Fires:	11:57:30				
Des. 8 hrs. Bill Peterson								
DRILLER'S SIGNATURE								
4:00	4:15	1/4	Tour — 4 p.m. to Midnight					
Specify actual hours worked			Hrs.					
4:15	4:30	1/4	Driller	Steve Bacties		8		
4:30	7:00	2 1/2	Derrick	Dwight Lee		8		
			Motor	Craig Black		8		
			Floor	Bruce Beard		8		
			Floor	Jack Fulwiler		8		
			Floor					
			Injuries:					
			Fires:					
Beard 5:01								
SHAP - 5:07								
Cristophale 1' 4"								
DRILLER'S SIGNATURE								
EQUIPMENT CHANGES								
TRANSFER #								
TOOLPUSH SIGNATURE								
SAFETY TALKS								
Subject:								
Weather:								
Road								
Conditions:								

CUSTOMER'S COPY

RIG NO. 5

DATE 5-19 19 8

CUSTOMER'S COPY

TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	5411	93	5504	7 3/4	101	52	1		19	6 1/4	2 1/4	590		Sub 5 7.85	55	8.70	31	
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	4	7 7/8	3-22	3/15	MF732	35	60	418	3 1/2			2	400	64				
	MUD 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. PUMP 12 m. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.3 10.3 10.3 10.3 No. 1 PREL. SURE IDLE 850 I No. 2 PREL. SURE 800 800 800 800 1 210 250																	
	VISCOSITY 32 32 32 33 MODEL S.P.M. 64 64 64 64 2 152																	
	GEL 12 14 14 15 LINES SIZE 5 1/2 x 1 1/4 3 2																	
	W.L. F.C. pH. GENERAL: Cleaned Tank #1 SURVEYS At Feet Degrees 4 168 5 90																	
	ADDITIVES: 5-Gal-15 Salt-25 Changed oil + filters on #2 Pump Also serviced Air filters																	
TOUR 8 AM TO 4 PM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	5504	124	5628	17 1/2	101	53	1		19	6 1/4	2 1/4	590		Sub 5 7.85	55	8.70	1	
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	4	7 7/8	3-22	3/15	MF732	35	60	542	39			2	800	64				
	MUD 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.3 10.3 10.4 10.4 No. 1 PREL. SURE 800 800 800 800 1 218 250																	
	VISCOSITY 34 34 35 35 MODEL S.P.M. 64 64 64 64 2 180																	
	GEL 12 14 13 13 LINES SIZE 5 1/2 x 1 1/4 3 10																	
	W.L. F.C. pH. GENERAL: Cleaned anc. #3 Tank SURVEYS At Feet Degrees 4 176 5 98																	
	ADDITIVES: 5-Gal-17 Chem-2 Starch-15 Cedar Fib-1 Mica-5 Salt-30																	
TOUR 4 PM TO MIDNIGHT	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	5628	94	5722	7 3/4	103	54	1		19	6 1/4	2 1/4	590		Sub 5 7.85	55	8.70	2	
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	4	7 7/8	3-22	3/15	MF732	35	60	636	46 1/2			2	800	64				
	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.3 10.3 10.3 10.3 No. 1 PREL. SURE DEAD 800 800 800 800 1 226 250																	
	VISCOSITY 34 34 35 34 MODEL S.P.M. 64 64 64 64 2 168																	
	GEL 10 10 10 10 LINES SIZE 5 1/2 x 1 1/4 3 18																	
	W.L. F.C. pH. GENERAL: Cleaned New Tank SURVEYS At Feet Degrees 4 184 5 106																	
	ADDITIVES: 5 Gal-12 Cedar 7 Ber-2 Starch-6 Salt-25 Mica-5																	
TOUR MIDNIGHT TO 8 AM	From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly		
	5722	94	5816	7 3/4	103	54	1		19	6 1/4	2 1/4	590		Sub 5 7.85	55	8.70	2	
	No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
	4	7 7/8	3-22	3/15	MF732	35	60	636	46 1/2			2	800	64				
	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change																	
	WEIGHT 10.3 10.3 10.3 10.3 No. 1 PREL. SURE DEAD 800 800 800 800 1 226 250																	
	VISCOSITY 34 34 35 34 MODEL S.P.M. 64 64 64 64 2 168																	
	GEL 10 10 10 10 LINES SIZE 5 1/2 x 1 1/4 3 18																	
	W.L. F.C. pH. GENERAL: Cleaned New Tank SURVEYS At Feet Degrees 4 184 5 106																	
	ADDITIVES: 5 Gal-12 Cedar 7 Ber-2 Starch-6 Salt-25 Mica-5																	

TOUR MIDNIGHT TO 8 AM	REMARKS	TIME	TOUR — Midnight — 8 a.m.
	Drill	12:00 2:30 2 1/2	Specify actual hours worked
	12 Rig	2:30 2:45 1/4	Driller Doug Peterson
	Drill	2:45 8:00 5 1/4	Derrick Lyndon Haggerson
			Motor Gary Peterson
			Floor Robert Charkbais
			Floor Leon Danielson
			Floor
			Injuries:
			Fires:
TOUR 8 AM TO 4 PM	REMARKS	TIME	TOUR — 8 a.m. to 4 p.m.
	Drill	8:00 9:45 1 3/4	Specify actual hours worked
	12 Rig (v B.O.P.)	9:45 10:00 1/4	Driller Bill Peterson
	Drill	10:00 11:30 1 1/2	Derrick Clayton Ashen
	Survey "10"	11:30 11:45 1/4	Motor Morris Meland
	Drill	11:45 4:00 4 1/4	Floor Paul Blams
			Floor Troy Peterson
			Floor
			Mechanic
			Injuries:
		Fires:	
TOUR 4 PM TO MIDNIGHT	REMARKS	TIME	TOUR — 4 p.m. to Midnight
	Drill	4:00 4:15 1/4	Specify actual hours worked
	Service Rig (Bop)	4:15 4:30 1/4	Driller Dwight Lee
	Drill	4:30 12:00 7 1/2	Derrick Lyndon Haggerson
			Motor Craig Black
			Floor Bruce Board
			Floor Jack Fulwiler
			Floor
			Injuries:
			Fires:
TOUR MIDNIGHT TO 8 AM	REMARKS	TIME	TOUR — Midnight — 8 a.m.
	Drill	12:00 2:30 2 1/2	Specify actual hours worked
	12 Rig	2:30 2:45 1/4	Driller Doug Peterson
	Drill	2:45 8:00 5 1/4	Derrick Lyndon Haggerson
			Motor Gary Peterson
			Floor Robert Charkbais
			Floor Leon Danielson
			Floor
			Injuries:
			Fires:

Casing Report				EQUIPMENT CHANGES				TRANSFER =			
Fuel on Hand 12:01 a.m. gals.				TO				SAFETY			
Fuel Rec'd Today (add) gals.				PLUS				SAFETY			
TOTAL gals.				FLUG DOWN				SAFETY			
Fuel on Hand 11:59 p.m. (educt) gals.				CEMENT RETURNS - (YES/NO)				SAFETY			
FUEL USED gals.				GENERAL: —				SAFETY			
TOOLBOX ON BIT #				APPROVED BY OPERATOR'S REPRESENTATIVE				SAFETY			
DRILL PIPE				APPROVED BY TOOLPUSHER				SAFETY			
CLASSIFICATION				Weather: -				SAFETY			
TOTAL				Road: -				SAFETY			
Date Sonac				Conditions: -				SAFETY			
Fr. Drilled since Sonac								SAFETY			
Total Fr. Drilled								SAFETY			
CALIPER DATE								SAFETY			
RESULTS								SAFETY			
FROM PIPE RACK								SAFETY			

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly		
5890	30	5920	2	104	56	2	19	6 1/4	2 1/4	590			Subs 7.85	8.70	24		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
5	7 7/8	F-3	3/15	RRBL5411	40	65	30	2			1	800	64				
MUD 12 mn. 2 a.m. 4 a.m. 6 a.m. PUMP 12 mn. 2 a.m. 4 a.m. 6 a.m. PUMP 12 mn. 2 a.m. 4 a.m. 6 a.m. MOTOR HOURS Next Oil Change																	
WEIGHT 1 1/2 103 103 104 No. 1 PRES. SURE																	
VISCOSITY 40 40 40 40 Trip 800 800 No. 2 PRES. SURE																	
GEL P 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																	
W.L. F.C. pH. GENERAL 5 1/2 x 1 1/2																	
ADDITIVES: starch - 15																	
sabel - 30																	
Cedar Fiber - 25																	
Drilling Line Record 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2																	
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly		
5905	30	5935	2	104	56	2	19	6 1/4	2 1/4	590			Subs 7.85	8.70	24		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
5	7 7/8	F-3	3/15	RRBL5411	40	65	30	2			1	800	64				
MUD 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. PUMP 8 a.m. 10 a.m. 12 noon 2 p.m. MOTOR HOURS Next Oil Change																	
WEIGHT 10.4 10.4 10.4 10.4 No. 1 PRES. SURE																	
VISCOSITY 40 40 40 40 No. 2 PRES. SURE																	
GEL 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																	
W.L. F.C. pH. GENERAL 1 1/2 x 1 1/2																	
ADDITIVES:																	
Drilling Line Record 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2																	
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fr. up on Kelly		
5905	30	5935	2	104	56	2	19	6 1/4	2 1/4	590			Subs 7.85	8.70	24		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
5	7 7/8	F-3	3/15	RRBL5411	40	65	30	2			1	800	64				
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. PUMP 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Next Oil Change																	
WEIGHT 10.9 10.9 10.9 10.9 No. 1 PRES. SURE																	
VISCOSITY 40 40 40 40 No. 2 PRES. SURE																	
GEL 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																	
W.L. F.C. pH. GENERAL 5 1/2 x 1 1/2																	
ADDITIVES: 5-Gal - 8																	
Starch - 10																	
Cedar Fiber - 13																	
Drilling Line Record 1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2																	
B.O.P. Tested Elapsed Time Pres. sure Packing & Seal Inspected Date Crown-a-matic Chk'd. Fuel on Hand 12.01 a.m. gals. CASING REPORT																	
Hydell Fuel Rec'd Today (add) gals. ITS CSG																	
Pipe Rams. Kelly Cook Chk'd. TOTAL gals. TO KB. USED SAE CEM																	
Blind Rams. Fire Equip. Chk'd. Fuel on Hand 11.39 a.m. (deduct) gals. PLUS - PLUG DOWN A.M. P.M. COAL ON HAND TONS TOTAL COMPANY TIME HRS. TOTAL CONTRACTOR'S TIME HRS.																	
TOTCO RING ON BIT # Boiler Operated: Hrs. FUEL USED gals. CEMENT RETURNS (YES/NO) GENERAL: -																	
DRILL PIPE Size Joint CLASSIFICATION TOTAL Date Sonest. Fr. Drilled since Sonest. Total Ft. Drilled CALIPER DATE RESULTS FROM PIPE RACK																	

REMARKS			TIME			Tour - Midnight - 8 a.m.		
			START	STOP	INTVL	Specify actual hours worked		
P.O.O.H			12:00	12:15	1/4	Driller Dug Peterson 8		
Rig			12:15	12:30	1/4	Derrick Lyndon Haggerson 8		
G.I.H			12:30	2:15	1 3/4	Motor Gary Peterson 8		
Wash to bottom			2:15	2:30	1/4	Floor Robert Charlesbeis 8		
Drill			2:30	4:30	2	Floor Leon Danielson 8		
Circulate Loss Circulation (75-100 bbl)			4:30	6:30	2	Floor		
Survey + P.O.O.H SLM			6:30	8:00	1 1/2	Injuries:		
					8	Fires:		
DRILLER'S SIGNATURE								
C.O.O.H			8:00	9:00	1	Tour - 8 a.m. to 4 p.m.		
Rig up Loggers			9:00	9:30	1/2	Specify actual hours worked		
Logging			9:30	4:00	6 1/2	Driller Bill Peterson 8		
Corrected Depth (5905)					8	Derrick Clayton Ashheim 8		
						Motor Morris Meland 8		
						Floor Paul Bloms 8		
						Floor Troy Peterson 8		
						Floor		
						Mechanic		
						Injuries:		
						Fires:		
DRILLER'S SIGNATURE Bill Peterson								
Logging			4:00	6:45	2 3/4	Tour - 4 p.m. to Midnight		
Service rig + Log down			6:45			Specify actual hours worked		
Logging Tool			7:30		3/4	Driller Dwight Lee 8		
G.I.H			7:30	9:45	2 1/4	Derrick Lyndon Haggerson 8		
Wash to bottom			9:15	9:45	1/2	Motor Craig Black 8		
Drill			9:45	10:30	3/4	Floor Bruce Bond 8		
Circulate			10:30	12:00	1 1/2	Floor Jack Fulwider 8		
					8	Floor		
						Injuries:		
						Fires:		
DRILLER'S SIGNATURE Dwight Lee								
EQUIPMENT CHANGES			TRANSFER =			Toolpush Signature Byron M. Hansen		
TO			KB. USED SAE CEM			SAFETY TACKS		
PLUS - PLUG DOWN A.M. P.M.			COAL ON HAND TONS			Subject:		
CEMENT RETURNS (YES/NO) GENERAL: -			TOTAL COMPANY TIME HRS.			TOTAL CONTRACTOR'S TIME HRS.		
RESULTS FROM PIPE RACK			Approved by Operator's Representative			Weather: MAR-318		
			Approved by Toolpusher			MAR02-0318		
			Road Conditions:					

BIRD OIL EQUIPMENT LTD. (DRILLING DIVISION)

DAILY DRILLING LOG

RIG NO. 5

LOCATION

Buckles B-1

LSD

SEC 22

TWP.

RGE 28 N

W. 58 E

RIG NO. 5

IN

0340

DIRECTIONS TO WELL

MAILING POINT

SHIPPING POINT

MILES MOVED

DATE

196

DATE

8-23-81 19

From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
5		7 1/8		F-3		3		-15		R98L3111																									
MUD		12 m.		2 a.m.		4 a.m.		8 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		8 a.m.		PUMP		12 m.		2 a.m.		4 a.m.		8 a.m.		MOTOR HOURS		Next Oil Change			
WEIGHT		10.4								No. 1		PRES. SURE		No. 2		PRES. SURE		1		16		250													
VISCOSITY		78								MODEL		S.P.H.		MODEL		S.P.H.		2		216															
GEL		12								LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		66															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:		Starch - 7		Gel - 10		Fiber - 2																													
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8-23-81		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		PUMP		8 a.m.		10 a.m.		12 noon		2 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		24		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		32		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		32		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		32		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		32		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)		Stands		Singles		DRILL COLLARS		No.		O.D.		I.D.		Length		Air Wt.		Sub. Wt.		C.B. Ft.		Fl. up on Kelly					
No.		Size		Type		Jct/W.C.		Serial No.		Wgt.		R.P.M.		Drilled or Cor'd		Hrs.		Reamed		Hrs.		Pump No.		Pump Pressure		S.P.M.		Table Torque		T.		B.		G.	
MUD		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		PUMP		4 a.m.		8 a.m.		8 a.m.		10 p.m.		MOTOR HOURS		Next Oil Change			
WEIGHT										No. 1		PRES. SURE		No. 2		PRES. SURE		1		32		250													
VISCOSITY										MODEL		S.P.H.		MODEL		S.P.H.		2		224															
GEL										LINER SIZE		5 1/2 x 1 1/4		LINER SIZE		5 1/2 x 1 1/4		3		84															
W.L.		F.C.		pH.		GENERAL:																													
ADDITIVES:																																			
Drilling Line Record		Size		Make		Serial No.		No. Lines		Trips		Ton Miles		Total Miles		Slip		Feet or Cut		At Miles		Date Slip or Cut		Next Slip		Feet Left on Spool									
1 1/4		Hann				8		515		58		515										8/11/01		500											
From		Footage		To		Hrs. on Bottom		Wt. Drill Pipe (1000 lbs.)																											

DIRECTIONS TO WELL MAILING POINT SHIPPING POINT MILES MOVED DATE 8-2-81 198 DATE 8-24-81 19

TOUR MIDNIGHT TO 8 AM	From Footage To Hrs. on Bottom Wt. Drill Pipe (1000 lbs.) Stands Singles DRILL COLLARS No. O.D. I.D. Length Air Wt. Sub. Wt. C.B. Ft. Ft. up on Kelly															REMARKS										TIME			Tour — Midnight - 8 a.m.	
																tear out Rig Clean mud 1200 tanks Etc 330 35													Specify actual hours worked	
																Rig Released at 330 AM 82481													Driller SAM SAGASER	
																SCRUB SUB. LAT DERRICK DOWN 3:30 8:00 1/2													Derrick DAN LEE	
																													Motor SCOTT HASKIN	
																													Floor SHANE LAWSON	
																													Floor GARY LEE	
																													Floor 502-80-5602	
																													Injuries:	
																													Fires:	
TOUR 8 AM TO 4 PM	From Footage To Hrs. on Bottom Wt. Drill Pipe (1000 lbs.) Stands Singles DRILL COLLARS No. O.D. I.D. Length Air Wt. Sub. Wt. C.B. Ft. Ft. up on Kelly															tear out & part sub 8:00													Tour — 8 a.m. to 4 p.m.	
																													Specify actual hours worked	
																													Driller	
																													Derrick	
																													Motor	
																													Floor	
																													Floor	
																													Floor	
																													Mechanic	
																													Injuries:	
TOUR 4 PM TO MIDNIGHT	From Footage To Hrs. on Bottom Wt. Drill Pipe (1000 lbs.) Stands Singles DRILL COLLARS No. O.D. I.D. Length Air Wt. Sub. Wt. C.B. Ft. Ft. up on Kelly																												Tour — 4 p.m. to Midnight	
																													Specify actual hours worked	
																													Driller	
																													Derrick	
																													Motor	
																													Floor	
																													Floor	
																													Floor	
																													Injuries:	
																													Fires:	
B.O.P. Tested Elapsed Time Pres. sure Packing & Seal Inspected Date Crown-matic Ch'd. Fuel on Hand 12:01 a.m. gals. CASING REPORT															EQUIPMENT CHANGES										TRANSFER =		Toolpush			
Hydral																											Signal			
Pipe Rams.																											SAFETY TALKS			
Blind Rams.																											Subject:			
TOTCO RING ON BIT # Boiler Operated: Hrs. Fire Equip. Ch'd. FUEL USED gals. CEMENT RETURNS - YES/NO															GENERAL:												MAR-320			
DRILL PIPE Size Joint CLASSIFICATION 2 3 4 TOTAL Date Sonac Ft. Drilled since Sonac Total Ft. Drilled CALIPER DATE RESULTS FROM PIPE RACK																											Weather:			
																											Road Conditions:			

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

Form 9-331
Dec. 1973

UNITED STATES SEP 28 1981
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐ SEP 28 1981
2. NAME OF OPERATOR TXO Production Corp.
3. ADDRESS OF OPERATOR Suite 300, 2705 Montana Avenue, Billings, Montana
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 660' FNL, 1980' FEL
AT SURFACE: Sec. 22-T28N-R51E
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Operator Name Change	

5. LEASE 14-20-0256-5439
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Buckles "B"
9. WELL NO. #1
10. FIELD OR WILDCAT NAME East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-T28N-R51E
12. COUNTY OR PARISH Roosevelt 13. STATE Montana
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD) 2106' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

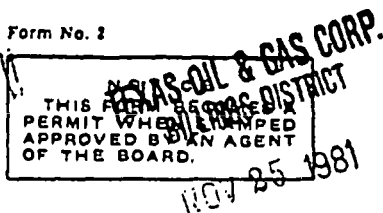
Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp.", as indicated above in Item 2.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles K. Curlee TITLE Environmental Adm. DATE Sept. 27, 1981
Charles K. Curlee

APPROVED BY Charles K. Curlee TITLE ACTING DISTRICT SUPERVISOR DATE 9/25/81
CONDITIONS OF APPROVAL, IF ANY:



SUBMIT IN QUADRUPPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Change of Operator Name	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 14, 1981

Following is a notice of intention to do work { on land } owned { described as follows:
report of work done { leased

LEASE Buckles "B"

MONTANA
(State)Roosevelt
(County)E. Poplar
(Field)Well No. B-1 C.W.N.E. Sec. 22 T28N R51E MPM
(m. sec.) (Township) (Range) (Meridian)The well is located 660 ft. from { N } line and 1980 ft. from { E } line of Sec. 22
XX

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106' GL

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp."

Approved subject to conditions on reverse of form

Date NOV 23 1981

ORIGINAL SIGNED BY

By Udo Wickman, Executive Secretary
District Office Agent

Title

Company TXO Production Corp.

By Leo A. Heath

Title Project Engineer

Address 2705 Montana Avenue Suite 300

Billings, MT 59101

BOARD USE ONLY API WELL NUMBER									
STATE	COUNTY	WELL							
MT	BLA	B-1							

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPILLED OR EXTENSION REQUESTED.

OVER

MAR02-0322

MAR-322

Locate well. footage measurement from legal subdivision (Section) line
and nearest drilling or producible well, if any.

Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Rge.....

Locate
Well
Correctly

Twp.....

SCALE—1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).

2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.

3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.

4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.

5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.

6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.

7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.

8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.

9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.

10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.

11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

MAR-323

MAR02-0323

Buckle B 1

BUCKLE B # 1

Film ☒

Sepia ☒

Blue In ☒

Smead
No. 1R2870E

HASTINGS, MN.
LOS ANGELES, CALIF. COGAIN, OH.
MUNICH, GERMANY. MUST GROVE, GA.

TXO-90

MAR-324

MAR02-0324

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 1980' FEL (NW NE)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE
14-20-0256-5439 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles.
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

- Set 35 sxs cmt plug above perms
Set cmt plug 50' in & 50' out of prod. csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surface.

Verbal approval was given by Don Miller at the BLM's Miles City office on May 21, 1984.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Clouatre TITLE Dir. & Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE ADM-MINERALS DATE JUN 13 1984
CONDITIONS OF APPROVAL, IF ANY:

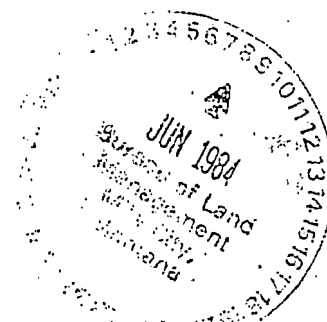
MAR02-0325

MAR-325

P & A - MONTANA

BUCKLES "B" #1

Roosevelt Co./22-28N-51E



05/23/84 5840' PBTB, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.

05/24/84 5840' PBTB, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.

05/26/84 5840' PBTB, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

MAR-326

MAR02-0326

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 660' FNL & 1980' FEL (NW NE)

AT TOP PROD. INTERVAL: Same

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
14-20-0256-5439 Ft. Peck
6. INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2106' GL. 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

CONDITIONS OF APPROVAL:

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

SIGNED M. David Cloutre TITLE Area Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE ADM-MINERALS DATE JUN 13 1984
CONDITIONS OF APPROVAL, IF ANY:

MAR-327

MAR02-0327

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 1, 1984

MONTANA BOARD OF OIL & GAS CONSERVATION
2535 St. Johns Avenue
Billings, Montana 59102

RE: Buckles "A" #1, "B" #1, "SWD" #1
Section 22, T28N-R51E
Roosevelt County, Montana

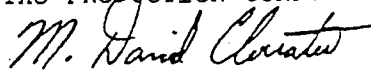
Dear Sirs:

Attached please find Sundry Notices and Well History's on the above referenced wells.

Please call me at this office if you have any questions about these wells.

Sincerely,


TXO PRODUCTION CORP.



M. David Clouatre
Drilling & Production Engineer

Encl.
MDC/tlw

MAR02-0328

A SUBSIDIARY OF  TEXAS
OIL & GAS CORP.

MAR-328

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well	XXXX	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 21

19.84

Following is a ~~notice of intention to do work~~ { on land } owned { described as follows:
~~report of work done~~ } leased

LEASE Buckles

..... MONTANA Roosevelt East Poplar
(State) (County) (Field)

Well No. "B" #1 22 28N 51E
(m. sec.) (Township) (Range) (Meridian)

The well is located 660 ft. from { N } line and 1980 ft. from { X } line of Sec. 22
XXXX W

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During the plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs.
Set cmt plug 50' in & 50' out of prod csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surf.

MAR02-0329

Verbal approval was given by Claire Haughey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84.

Approved subject to conditions on reverse of form

Date

By
District Office Agent Title

Company TXO Production Corp.

By M. David Cloutre

Title Drilling & Production Engineer

1800 Lincoln Center Bldg
Address Denver, Colorado 80264

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
2	5	

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.
OVER

MAR-329

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	XXXXX
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 29, 1984

Following is a {notice of intention to do work} on land {owned} described as follows:
 {report of work done} {leased}

LEASE Buckles

MONTANA Roosevelt East Poplar
 (State) (County) (Field)
 Well No. "B" #1 22 28N 51E
 (m. sec.) (Township) (Range) (Meridian)

The well is located 660 ft. from N line and 1980 ft. from W line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2106'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25 sxs cmt through perfs (5802'-5808').
2. 35 sxs cmt 5790'-5340'.
3. 25 sxs cmt 4300'-4200' (50' below & 50' above 4½" csg stub).
4. 40 sxs cmt 2450'-2350'.
5. 35 sxs cmt 1200'-1100' (50' below & 50' above 8-5/8" csg shoe).
6. 50 sxs cmt 950'-800' (25' below & 25' above Judith River).
7. 15 sxs cmt @ surface.

Casing was cutoff below surface.

MAR02-0330

Approved subject to conditions on reverse of form

Date

By District Office Agent Title

Company TXO Production Corp.
 By M. David Cloutre
 M. David Cloutre
 Title Drilling & Production Engineer
 1800 Lincoln Center Building
 Address Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
 DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
 REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-330

P & A - MONTANA

BUCKLES "B" #1

Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBTB, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBTB, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBTB, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

MAR02-0331

MAR-331

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 1980' FEL (NW NE)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
14-20-0256-5439 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"B" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21313
15. ELEVATIONS (SHOW OF, KDB, AND WD)
2106' GL, 2118' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25" sxs cmt through perfs (5802'-5808').
2. 35 sxs cmt 5790'-5340'
3. 25 sxs cmt 4300'-4200' (50' below & 50' above 4½" csg stub)..
4. 40 sxs cmt 2450'-2350'.
5. 35 sxs cmt 1200'-1100' (50' below & 50' above 8-5/8" csg shoe)..
6. 50 sxs cmt 950'-800' (25' below & 25' above Judith River).
7. 15 sxs cmt @ surface.

Casing was cutoff below surface.

MAR02-0332

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Drlg. & Prod. Engineer June 1, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

MAR-332

P & A - MONTANA

BUCKLES "B" #1

Roosevelt Co./22-28N-51E

- 05/23/84 5840' PBD, dig out valves. RU Halliburton. Pump 40 bbls of produced wtr dn tbg. Had 1800# @ 4 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. FLush w/ 23 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 23.5 bbls total @ end of squeeze. SWI w/ 1000# on tbg. Wait 4 hrs. TP was 1250#. Bled tbg press to 500#. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5840' PBD, SITP 760#, SICP 790#. Open annulus & bled off press. Tbg press bled off @ same time. Had no indication of fluid entry. MI & RU N. L. Well Service Rig #169. ND wellhead. NU BOP. TOOH w/ 186 jts 2-3/8", 4.7#, J-55, EUE tbg, model "R" single grip pkr, 1 jt 2-3/8" tbg. TIH w/ tbg. Spot 35 sxs Cl "G" cmt from 5790-5340'. TOOH & LD 25 jts tbg. SWI. SDFN. DW: 4035. CW: 6085.
- 05/26/84 5840' PBD, pull csg out of slips. NU BOP. RU Wisco csg crew. LD 4000' of 4-1/2" csg. RD csg crew. TIH w/ 2-3/8" tbg to 2450'. RU Halliburton. Pump 40 sxs Cl "G" cmt from 2450-2350'. TOOH & LD tbg to 1200'. Pump 35 sxs cmt from 1200-1100'. TOOH & LD tbg to 950'. Pump 50 sxs cmt from 950-800'. TOOH & LD tbg. Pump 15 sxs cmt @ surf. RD Halliburton. ND BOP. RD N.L. & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 14,055. CW: 28,337.

MAR02-0333

MAR-333

MAR02-0343

MAR-343

MRA-154

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-R0 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-00543
Communitization Agreement No. _____
Field Name EAST POPLAR
Unit Name NA
Participating Area NA
County ROOSEVELT State MT
Operator TXO PRODUCTION CORP
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of JULY, 1982

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SENW22	28N	51E	OSI	0	0	0	0	

MAR02-0344

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0		
*Sold	0		XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease	0		XXXXXXXXXXXXXXXXXX
*Injected	0		
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)	0		
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	0		XXXXXXXXXXXXXXXXXX

Authorized Signature: T. Craft Address: P.O. BOX 1165, WILLISTON, ND
Title: PRODUCTION DEPARTMENT Page 1 of 1

MAR-344

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM G-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Communitization Agreement No. _____

Field Name EAST PG AR

Unit Name NA

Participating Area NA

County ROOSEVELT State MONTANA

Operator TXO PRODUCTION CORP

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of JUNE, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report or result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and to forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22	28N	51E	OSI	0	0	0	0	

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	0		
*Sold	0		XXXXXXXXXXXXXXXXXX
*Spilled or Lost	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease	0		XXXXXXXXXXXXXXXXXX
*Injected	0		
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)	0		
*On hand, End of Month	0	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXX

Authorized Signature: T. Cuff

Address: P.O. BOX 1165, WILLISTON, ND

Title: PRODUCTION DEPARTMENT

Page 1 of 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005
Communitization Agreement No. _____
Field Name East Poplar
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of May, 1982

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SENW 22	28N	51E	OSI		0			

MAR02-0346

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU*Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: T. Craft Address: P.O. BOX 1165 Williston, ND 588
Title: Production Dept. Page 1 of 1

MAR-346

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-003439
Communitization Agreement No. _____
Field Name East Poplar
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of April, 19 82.

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE1/4 22	28N	51E	OSI		0			

MAR02-0347

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: T. Craft Address: 2705 Montana Ave. Ste 300 Billings, M
Title: Production Dept Page 1 of 1 591

MAR-347

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement NA
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of March, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE1/4 22 28N	51E	OSI			0			

MAR02-0348

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXXXX

Authorized Signature: A. L. Kagle Address: 2705 Montana Ave. Ste 300 Billings, MT 59101
Title: Drilling Engineer Page 1 of 1

MAR-348

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 45-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of February, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22	28N	51E	OSI		0			

MAR02-0349

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: A. L. Kague Address: 2705 Montana Ave. Ste 300,
Title: Drilling Engineer Page 1 of 1 Billings, MT

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MAR-349

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 19 82

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SEWN 22	28N	51E	OSI		0.			

MAR02-0350

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: A. J. Kase Address: 2705 Montana Ave. Ste. 300
Title: Drilling Engineer Page 1 of 1 Billings, MT

MAR-350

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. _____
Communitization Agreement _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE NW 22 28N	51E		OSI		0			

MAR02-0351

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: [Signature] Address: 2705 Montana Ave. Ste 300 Billings, MT
Title: Drilling Engineer Page 1 of 1 5910

MAR-351

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name NA
Participating Area NA
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of November, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SE1/4 22	28N	51E	OSI		0			

MAR02-0352

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: A. J. Kagee Address: 2705 Montana Ave. Ste 300 Billings,
Title: Drilling Engineer Page 1 of 1

MAR-352

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 23-005439
Communitization Agreement No. _____
Field Name East Poplar Field
Unit Name N/A
Participating Area N/A
County Roosevelt State Montana
Operator TXO Production Corp.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of October, 19 81

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
B-1	SENW 22	28N	51E	OSI		0			

MAR02-0353

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

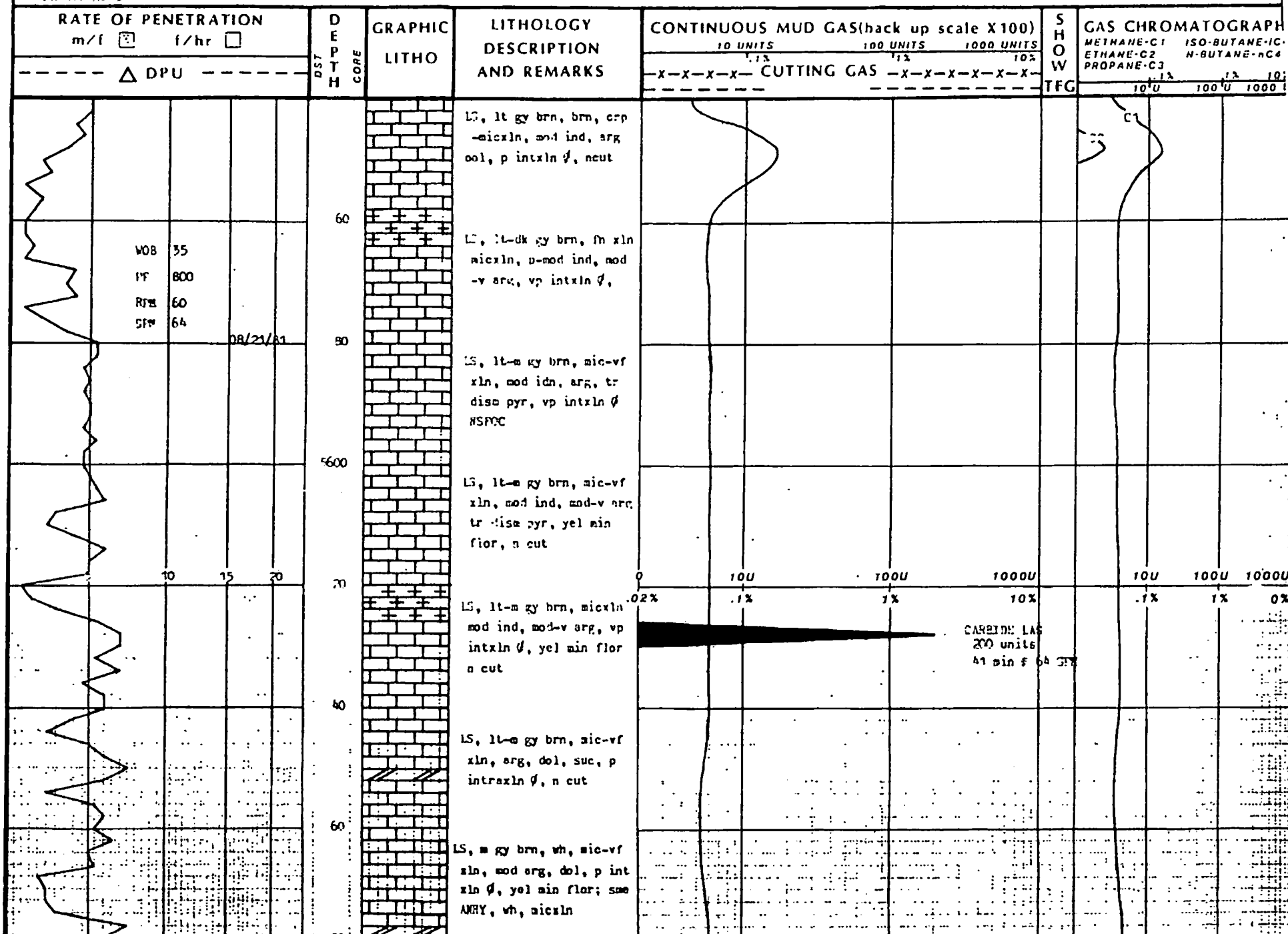
	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: A. J. Kazie Address: 2705 Montana Ave. Ste. 300 Billings, MT
Title: Drilling Engineer Page 1 of 1 59101

MAR-353

OPERATOR 20001 11 X GAS CORPSEC 2 TWP 24 S RNG 1WELL 20001 11 X-1NO. 20001 11 X-1CO., MT**analex**
A GEOSCIENCE EXTENSION OF XCO

MAR-355



MAR02-0355

OPERATOR TEXAS OIL & GAS CORP.SEC 27 TWP 28 RNG 41WELL WICKERY 8-1ROOSEVELT CO., MT

analex

A GEOSCIENCE EXTENSION OF XCO

MAR-356

MAR02-0356

RATE OF PENETRATION m/f <input checked="" type="checkbox"/> f/hr <input type="checkbox"/>				D E P T H C O R E	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS	CONTINUOUS MUD GAS(back up scale X100)				S H O W T F C	GAS CHROMATOGRAPH			
----- Δ DPU -----							10 UNITS 1% -X-X-X-X-	100 UNITS 1% -X-X-X-X-X-	1000 UNITS 10% -X-X-X-X-X-X-			METHANE-C1	ISO-BUTANE-IC	ETHANE-C2	N-BUTANE-nC4
				100		LS, brn, crp-wicxln, arg mod ind, tr pyr, p vug d, yel an min flor n c						C1			
WOB 35 IT 800 RPM 60 DPS 64				20		LS, n gy brn, wh, mic- vf xln, mod-v arg, mod ind, vr intrxn d, yel min flor, n cut: sme ASHY, wh, micxln									
				50		LS, lt gy, tan, mic-vf xln, crpxln, mod ind, arg, suc, f suc l, yel gn flor, n cut									
				100		LS, gy, wh, mic-vf xln p ind, sl arg, suc, e intraxen d, yel grn flor n cut, ip LS, gy, tan vp intrxn d, n cut									
				150		LS, wh, lt gy, tan, mic xln, p-mod ind, mod arg suc, g intraxen d, yel min flor, n cut	0.02%	.1%	1%	10%					
				1000		LS, lt-m gy brn, mic-fn xln, n ind, p-mod arg dol, vr intrxn d n cut									
						LS, lt-m gy brn, mic-fn xln, crpxln, p-mod ind suc, dol, mod-v arg, g intraxen d, n cut; ip ASHY									

CALIBRATION

v/ test gas
C1 100 div
C2 170 div
C3 250 div
C4 300 div
nC4 200 div100 1000 10000
.1% 1% 10%

OPERATOR TEXAS OIL & GASSEC 22 TWP 28 N RNG 51 EWELL BUCKING E-1

RD SEVELT

CO., VT**analex**

A GEOSCIENCE EXTENSION OF XCO

MAR-357

RATE OF PENETRATION m/f <input checked="" type="checkbox"/> f/hr <input type="checkbox"/>				DEPTH DST CORE	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS	CONTINUOUS MUD GAS (back up scale X100)			SHOW W TFG	GAS CHROMATOGRAPH		
----- Δ DPU -----							10 UNITS 1% -X-X-X-X-	100 UNITS 1% -X-X-X-X-X-	1000 UNITS 10% -X-X-X-X-X-X-		METHANE-C1 ETHANE-C2 PROPANE-C3	ISO-BUTANE-IC4 N-BUTANE-nC4	10% 1% 10%
				10		LT, lt-a gy brn, fn xln sme micxln, r ind, suc dol, mod-v arg, & intra xln φ, m yel flor, f- & yel stran cut					C1 1100 ppa C2 162 ppa C3 143 ppa		
WOB 35 FF 0 - 900 RPM 60 DPM 64				20		LT, lt-a gy brn, mic-fn xln, p-mod ind, mod-v arg, suc, & intraxln φ n cut							
				30		CHLORIDE LIME LT, lt-a gy brn, mic-vf xln, p-mod ind, mod arg, & intraxln φ, n cut							
				40		LOST CIRCULATION LT, lt-a gy brn, micxln sme suc, p-mod ind, arg, & intraxln φ, n cut	TO 25 units						
BIT #4 FTG 904 HRS 61 08/22/61 BH #5 7 7/8				5000		PUMP DATA AT 00.5 PM 35.02% 70 6.25 3/7 20 100 FIL 17 NaCl 104,490							
STC T- BIT #5 FTG 30 HRS 2				20									
TOTAL DEPTH: 5920' RUN 1 - 100%						TD 08/22/61 THANK YOU FOR LOGGING WITH ANALEX: ALVIN JONES P. ALVIN JONES							

MAR02-0357

OPERATOR SEC 12 TWP 7 RNG 11WELL CO., **analex**

A GEOSCIENCE EXTENSION OF XCO

RATE OF PENETRATION m/f <input checked="" type="checkbox"/> f/hr <input type="checkbox"/>				DEPTH CORE	GRAPHIC LITHO	LITHOLOGY DESCRIPTION AND REMARKS	CONTINUOUS MUD GAS(back up scale X100)			SHOW TFG	GAS CHROMATOGRAPH		
----- Δ DPU -----							10 UNITS .1%	100 UNITS 1%	1000 UNITS 10%		METHANE-C1	ISO-BUTANE-IC	
							-X-X-X-X- CUTTING GAS -X-X-X-X-X-				ETHANE-C2	N-BUTANE-NC4	
											PROPANE-C3		
				5000		COMMENCE LOGGING F 5000' 08/13/81 IN OTTER FORMATION							
						SH, dk gy, p-mod comp sbfis-fis, pily, n calc sme SL, lt brn, p cat, vf-f gr, org-sbang, p int, tr glau, NSFOC		CHASSIDE LAG 150 units ± 64 sec 51 min					
				20									
						SH, lt gy, kn, p comp, sbfis-blky, sl calc, ip LS, crn, micrln, p-mod ind, ool, vp d, NSFOC							
				40									
						MUD DATA WT 10.5 PP 13 V 4.05 4/6 pH 7.0 FILL 17 NaCl 244,700							
				60		SH, lt gn, sme gy, p comp, sbfis-blky, n-sl calc, ip LS, yel crn micrln, p-mod ind, org ool, vp d, NSFOC	0.02%	.1%	1%	10%			
				80		SH, lt gn, sme gy, p-mod comp, sbfis, hlky, sl calc, ip LS							
				5100		SH, lt gn gy, p-mod comp ireg-blky, sl calc, tr disa pyr, ip LS, yel crn, sme lt gy, micrln p ind, ool, vp d, NSFOC							

08/19/81

BY: J3
MRS 7
PAC 1103

NO 44
7-276
MRS J-22

CALIBRATION
w/ TE test gas

C1 100 div

C2 340 div

C3 500 div

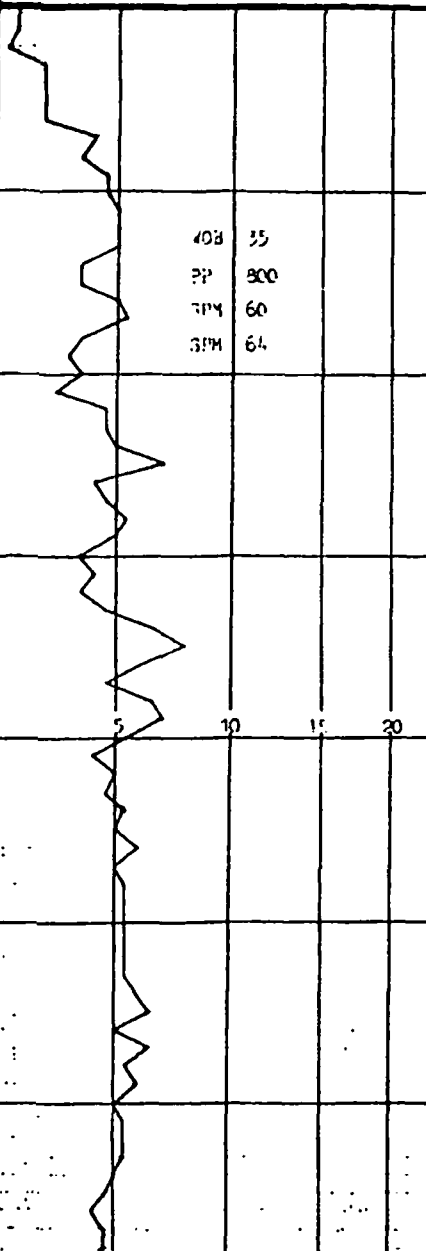
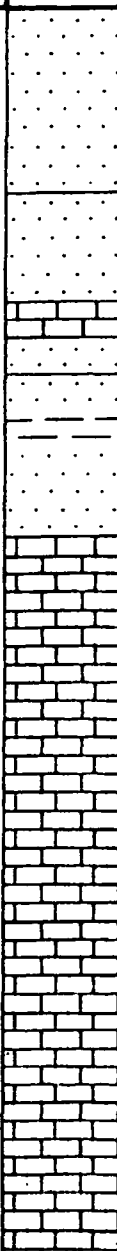
1000 1600 10000

MAR-358

MAR02-0358

OPERATOR TEXAS OIL & GAS CORPSEC 22 TWP 26 N RNG 51WELL MUCALUS P-1NOOSEVILLECO., MT**analex**

A GEOSCIENCE EXTENSION OF XCO

RATE OF PENETRATION m/f <input checked="" type="checkbox"/> f/hr <input type="checkbox"/>				D S T H C O R E	G R A P H I C L I T H O	L I T H O L O G Y D E S C R I P T I O N A N D R E M A R K S	CONTINUOUS MUD GAS(back up scale X100)				S H O W T F C	GAS CHROMATOGRAPH			
----- Δ DPU -----							10 UNITS 1.1%	100 UNITS 1.1%	1000 UNITS 10%	10%		METHANE-C1 ETHANE-C2 PROPANE-C3	ISO-BUTANE-IC4 N-BUTANE-NC4	1.1%	1%
							-X-X-X-X- CUTTING GAS -X-X-X-X-X-X-								
				90		LS, red-brng brn, n cut vf-fn grn., ang-sbang, p srt, n-sl calc, vp ∅ NSFOC, sme LS, m gy, micxn, p-mod, sl-mod arg, vp ∅, yel min flor n cut						C1			
408 35 PP 800 TPM 60 SPM 64				5300		KIRBY 1 st FORMATION TOP @ 5318'									
				20											
				40		LS, wh, dk gy brn, mic- vf xln, p-mod ind, sl- -v arg, vp ∅, yel min flor, n cut	0	10U	100U	1000U		10U	100U	1000U	
5 10 15 20				60		LS, wh, lt gy, crn, mic xln, p-mod ind, sl-mod arg, vp ∅, yel min flor n cut	.02%	.1%	1%	10%		.1%	1%	10%	
				80		LS, wh, lt gy, crp-micxl p-mod ind, sl-mod arg, vp intxln ∅, yel min flor, n cut									
				80		LS, lt gy, wh, mod ind crp-micxln, sl-mod arg, vp ∅, sl yel min flor n cut									

MAR-359

MAR02-0359

OPERATOR TEXAS OIL & GAS CORP.SEC 22 TWP 28 N RNG 51 E**analex**
A GEOSCIENCE EXTENSION OF XCOWELL HICKLES B-1ROOSEVELTCO., MT

RATE OF PENETRATION m/f <input checked="" type="checkbox"/> f/hr <input type="checkbox"/>				D E P T H C O R E	G R A P H I C L I T H O	LITHOLOGY DESCRIPTION AND REMARKS	CONTINUOUS MUD GAS(back up scale X100)				S H O W T F G	GAS CHROMATOGRAPH			
----- Δ DPU -----							10 UNITS 1% -x-x-x-x-	100 UNITS 1% -x-x-x-x-x-	1000 UNITS 10% -x-x-x-x-x-x-	METHANE-C1 ETHANE-C2 PROPANE-C3		ISO-BUTANE-IC4 N-BUTANE-nC4			
						LS lt gy, wh, mic-fn xln p-mod ind, arg, vp ϕ , NSPOC									
				20		MUD DATA WT 10.5 FV 34 YP 9.00 4/7 pH 7.0 FTL 15 NaCl 303,600									
				40		LS, lt gy, crs, wh, mic -fn xln, p-mod ind, arg p intxn ϕ , yel min flo n cut									
				60											
				80		CHARLES FORMATION TOP @ 5480									
				5500		LS, lt-a gy brn, mic-fn xln, mod ind, mod-v arg p intxn ϕ , yel min flo n cut	.02%	.1%	1%	10%	.1%	.1%	0%		
				20		LS, lt-a gy brn, tan, crp -micxln, vf xln, p-mod ind, mod-v arg, p int- xln ϕ , yel min flor, n cut; see 28, gy, blk y n calc									
				40											

MAR-361

MAR02-0361

MAR-362

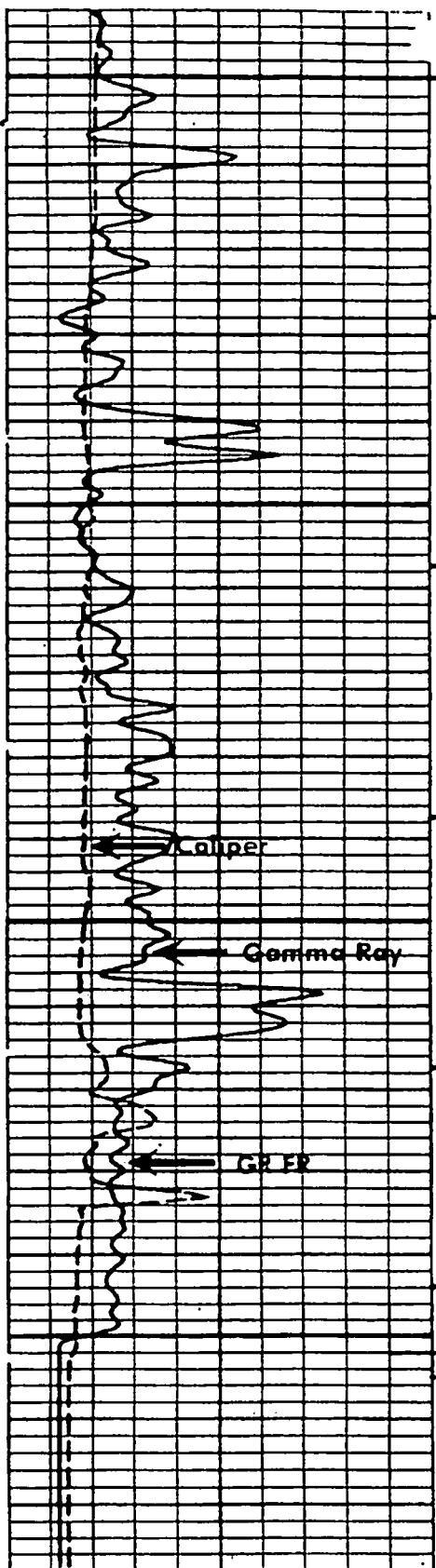
Schlumberger

**SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY**

COUNTY <u>ROOSEVELT</u>		COMPANY <u>TEXAS OIL AND GAS CORPORATION</u>		COMPANY <u>TEXAS OIL AND GAS CORPORATION</u>			
FIELD <u>EAST POPLAR</u>		WELL <u>BUCKLE B NO. 1</u>		WELL <u>BUCKLE B NO. 1</u>			
LOCATION <u>SEC. 22-28N-51E</u>		FIELD <u>EAST POPLAR</u>		FIELD <u>EAST POPLAR</u>			
WELL <u>BUCKLE B NO. 1</u>		COUNTY <u>ROOSEVELT</u>		STATE <u>MONTANA</u>			
COMPANY <u>TEXAS OIL AND GAS CORPORATION</u>		LOCATION		Other Services:			
				DLL/MSFL/GF			
API SERIAL NO.		SEC.		TWP.		RANGE	
		22		28N		51E	
Permanent Datum: <u>GL</u>				Elev. <u>2106</u>		Elev.: K.B. <u>2119</u>	
Log Measured From <u>KB</u>				13 Ft. Above Perm. Datum		D.F. <u>----</u>	
Drilling Measured From <u>KB</u>						G.I. <u>2106</u>	
Date	<u>8-21-81</u>						
Run No.	<u>ONE</u>						
Depth-Driller	<u>5920</u>						
Depth-Logger	<u>5905</u>						
Btm. Log Interval	<u>5902</u>						
Top Log Interval	<u>4600</u>						
Casing-Driller	<u>8-5/8 @ 1200</u>			@	@	@	@
Casing-Logger	<u>NOT LOGGED</u>						
Bit Size	<u>7-7/8</u>						
Type Fluid in Hole	<u>SALT STARCH-GEL</u>						
Dens.	Visc.	<u>10.4</u>	<u>40</u>				
pH	Fluid Loss	<u>7.0</u>	<u>10</u> ml	ml	ml	ml	
Source of Sample	<u>MUD TANK</u>						
Rm @ Meas. Temp.	<u>.053</u>	@ <u>70</u> °F	@ °F	@ °F	@ °F	@ °F	@
Rmf @ Meas. Temp.	<u>.045</u>	@ <u>70</u> °F	@ °F	@ °F	@ °F	@ °F	@
Rmc @ Meas. Temp.	<u>.080</u>	@ <u>70</u> °F	@ °F	@ °F	@ °F	@ °F	@
Source: Rmf	Rmc	<u>M</u>	<u>C</u>				
Rm @ BHT	<u>.021</u>	@ <u>195</u> °F	@ °F	@ °F	@ °F	@ °F	@
TIME	Circulation Stopped	<u>0630</u>	<u>8-21</u>				
	Logger on Bottom	<u>1300</u>					
Max. Rec. Temp.	<u>195</u>	°F	°F	°F	°F	°F	
Equip.	Location	<u>8247</u>	<u>WLSTN 4109</u>				
Recorded By	<u>SORENSEN-BARBER</u>						
Witnessed By	<u>DYER</u>						

MAR-363

MAR02-0363



5800

Caliper

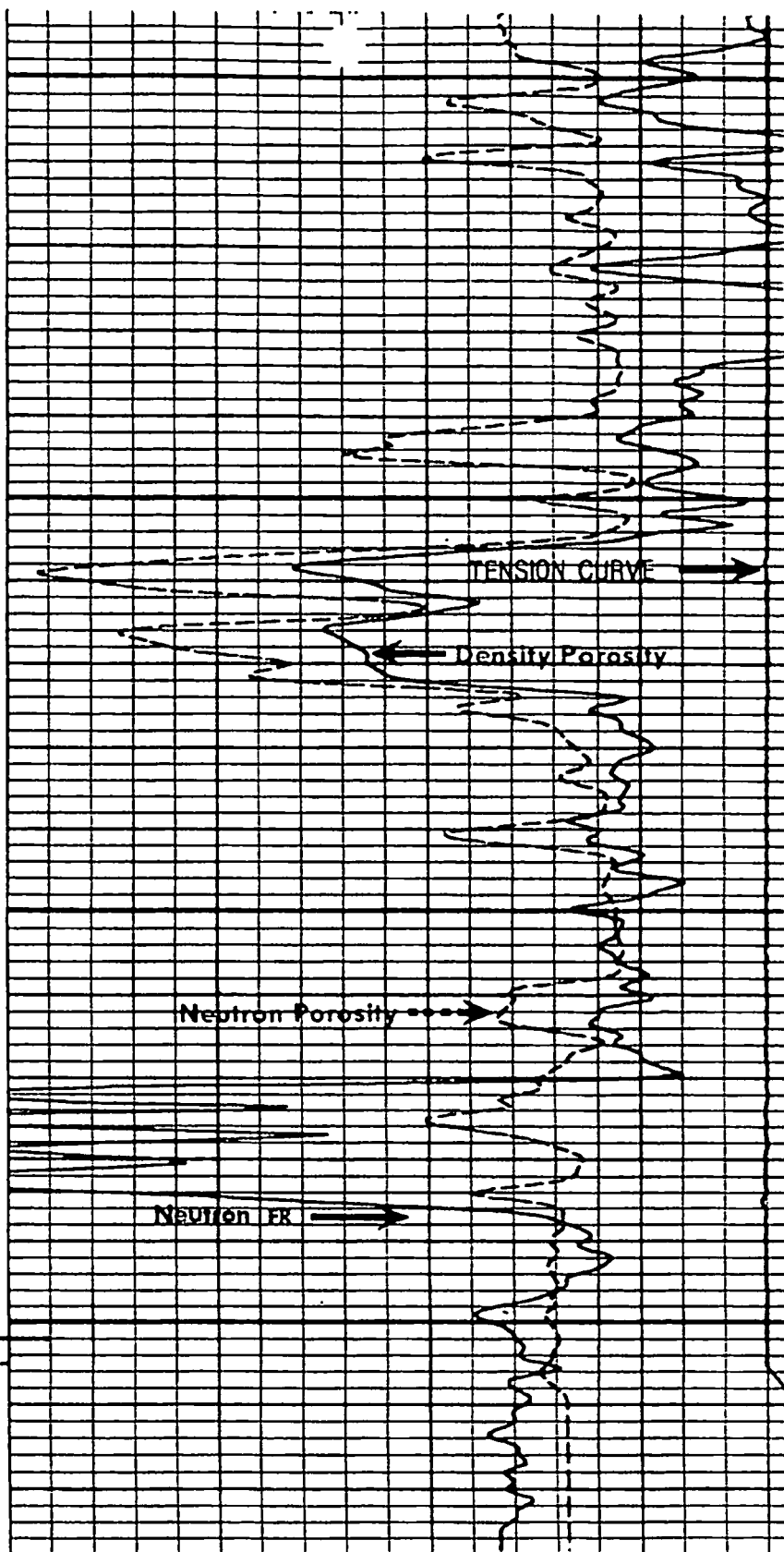
Gamma Ray

GR FR

5900

FILE

5



TENSION CURVE

Density Porosity

Neutron Porosity

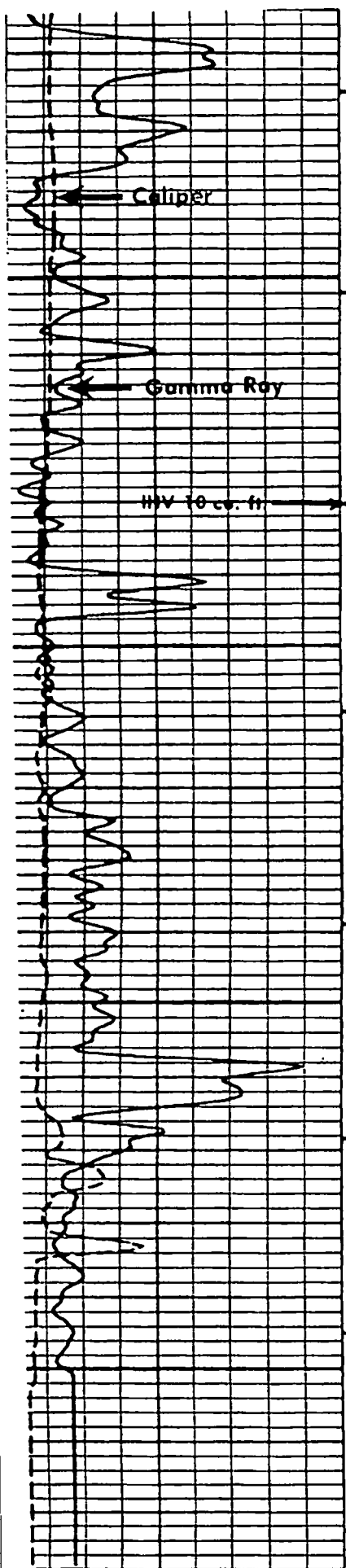
Neutron FR

MAR02-0364

CALI<IN >	
16.00	26.00
CALI<IN >	
6.000	16.00

TENS<LB >	
10000.	
DPHI< > Limestone	
0.3000	

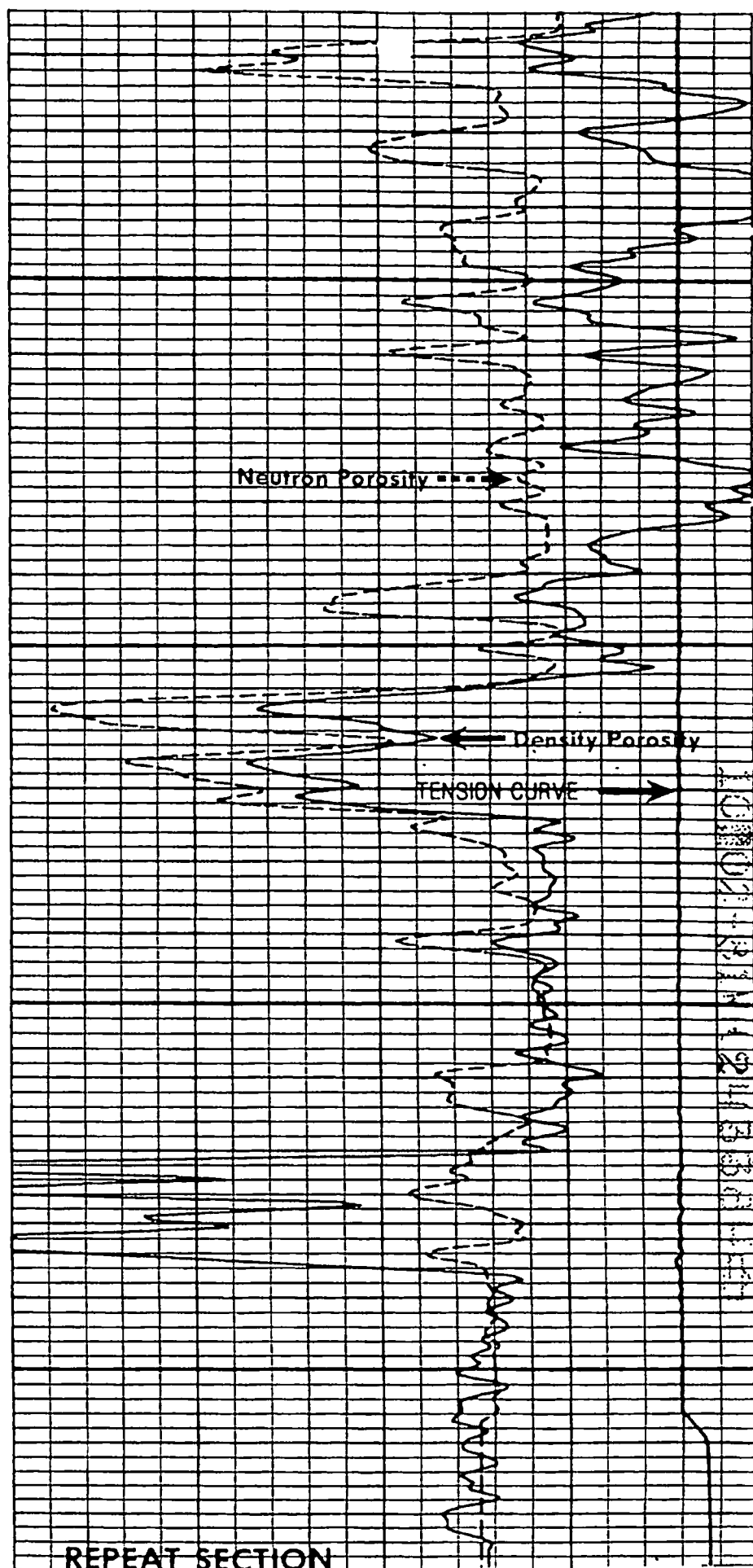
MAR-364



5800

5900

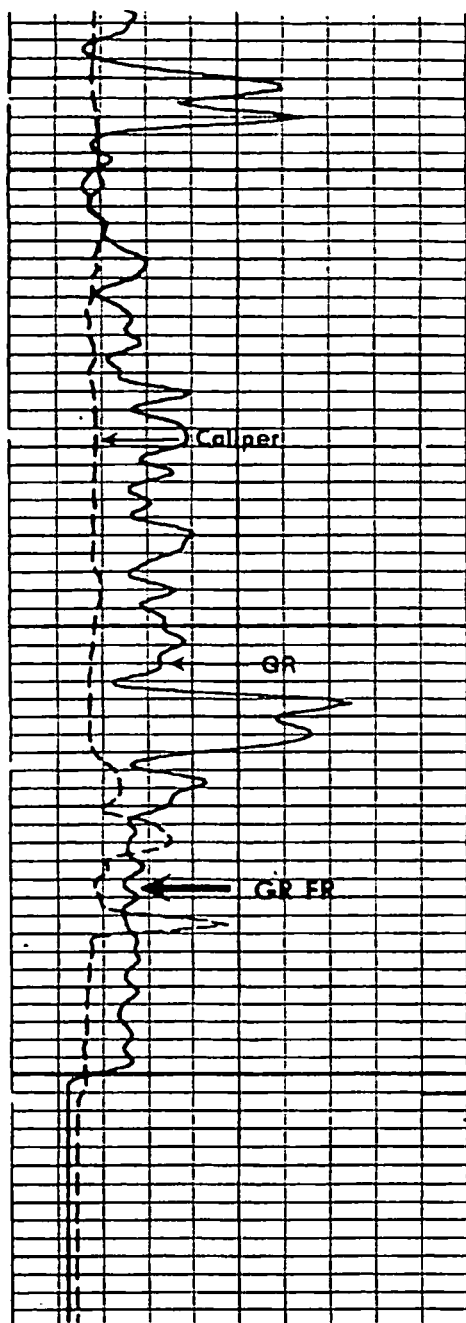
FILE



10000-8111-24330-100

MAR02-0365

MAR-365



5800

Caliper

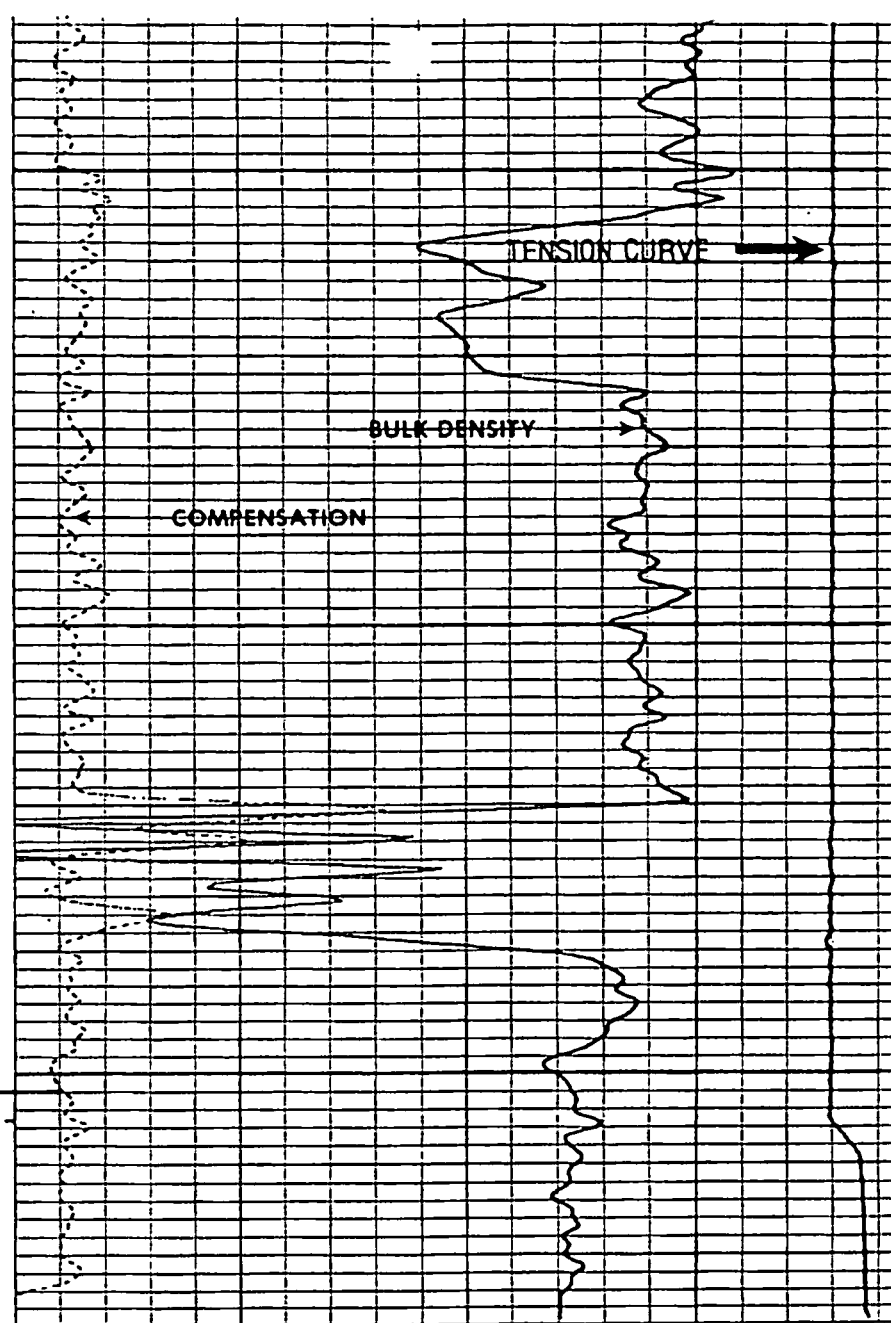
GR

GR FR

5900

FILE

5



TENSION CURVE

BULK DENSITY

COMPENSATION

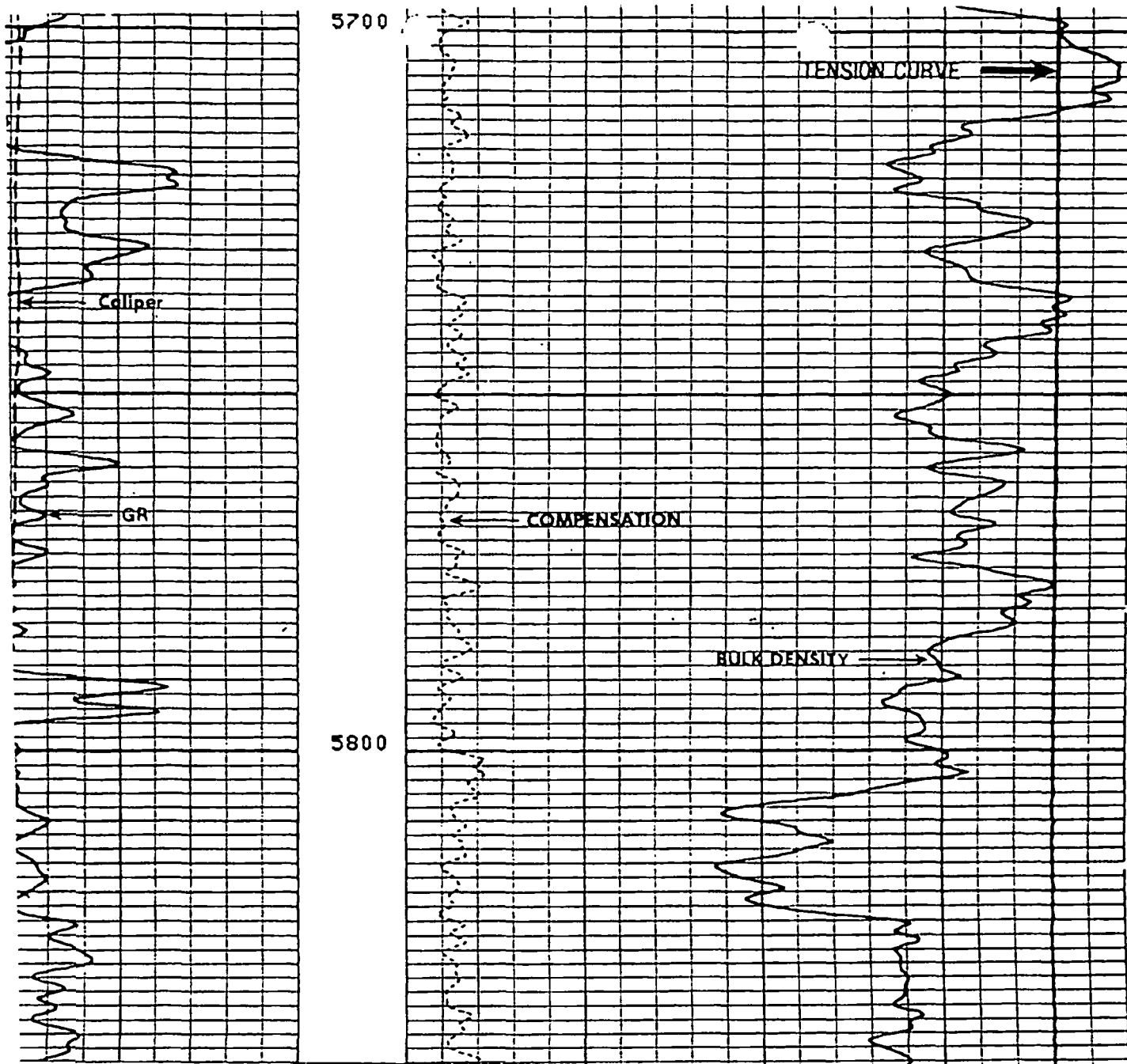
CALI(IN)				
16.00	26.00			
CALI(IN)			DRHO(G/C3)	TENS(LB)
6.000	16.00		-0.050 0.4500	10000. 0.
GR (GAPI)			RHOB(G/C3)	
0.0	100.0	2.000	3.00	

PARAMETERS

MAR02-0366

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR	LIME	

MAR-366



GTK

DETECTOR CALIBRATION SUMMARY

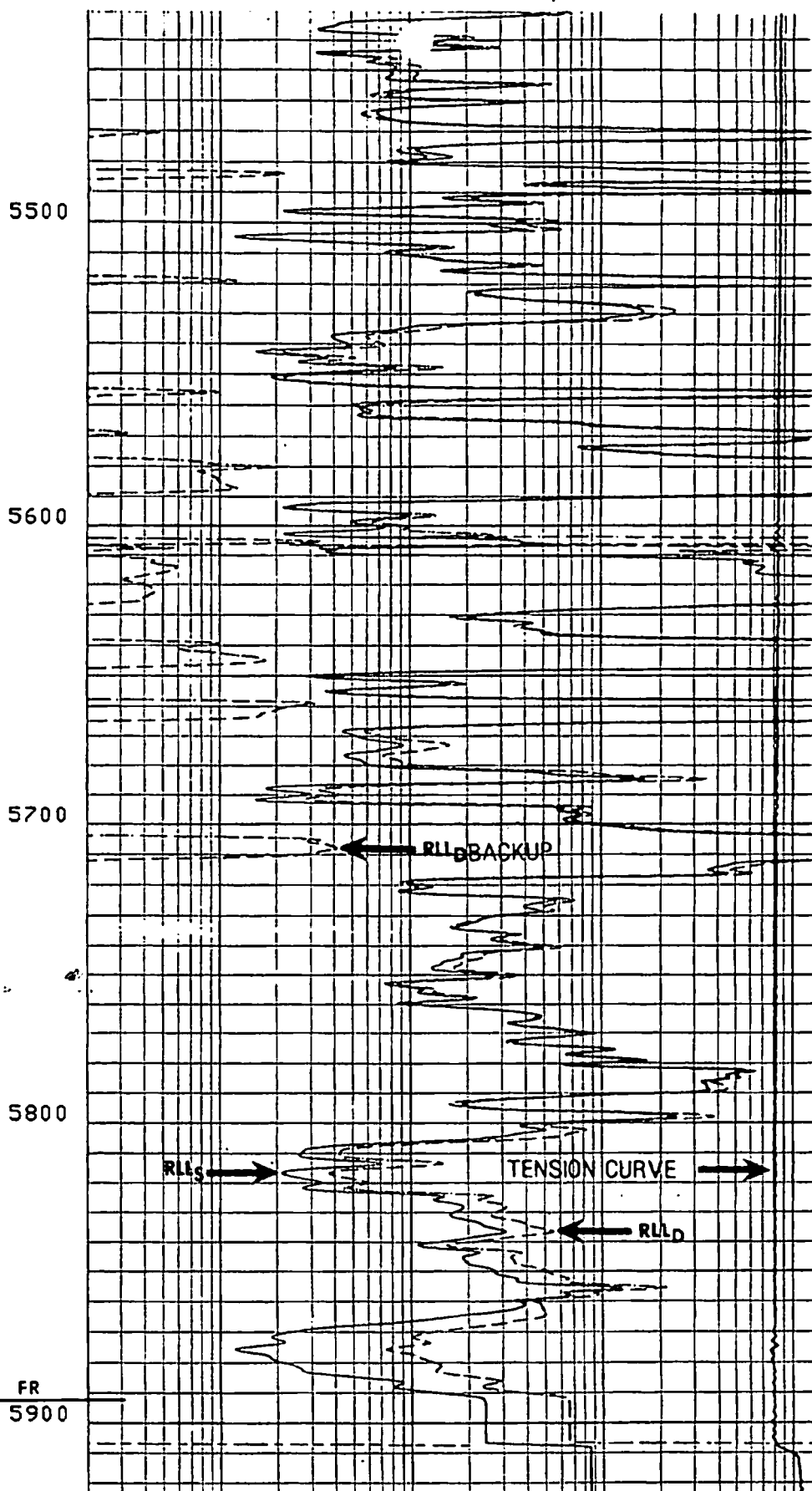
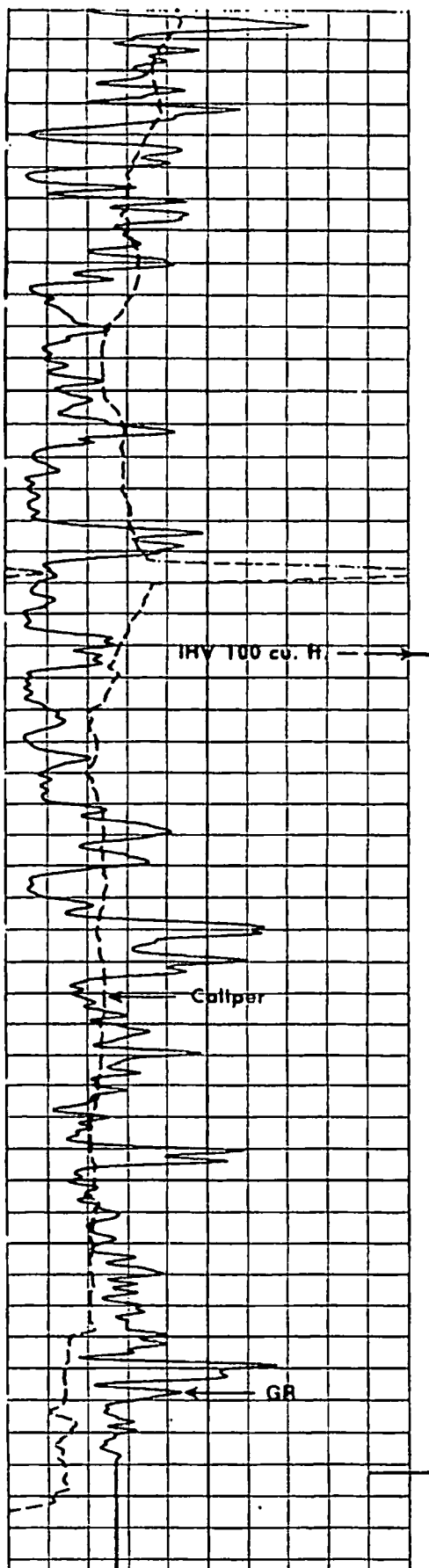
BLOCK
INPUT CALIBRATED
77

JIG
MEASURED CALIBRATED
782 240

FFDC
5730

MAR02-0367

MAR-367



FILE

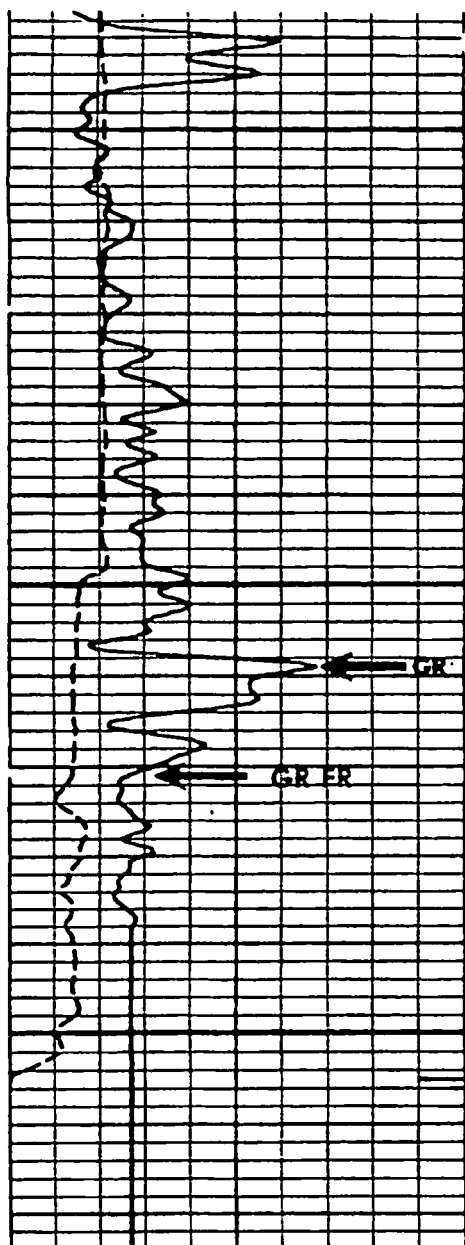
14

MAR02-0368

GR (GAPI)

LLD (OHMM)

TENS(LB) MAR-368



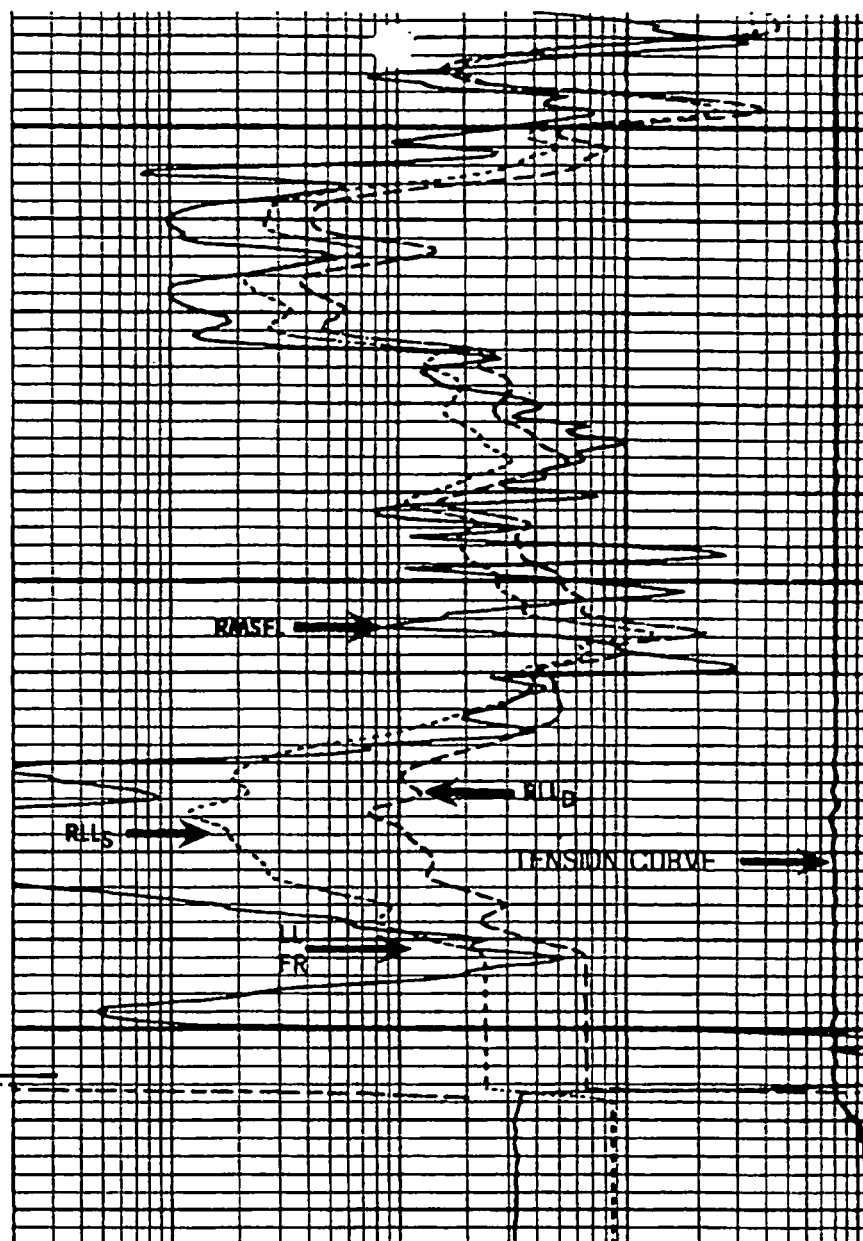
5800

5900

FR

FILE

14



		LLD (DHMM)		TENS (LB)	
GR (GAPI)		2000.	200000	10000.	0
0.0	100.0	LLD (DHMM)			
CALI (IN)		0.2000			200
16.00	26.00	LLS (DHMM)			
CALI (IN)		0.2000			200
6.000	16.00	RXD (DHMM)			
		0.2000			200

PARAMETERS

MAR02-0369

NAME UNIT VALUE

NAME UNIT VALUE

NAME UNIT VALUE

FPHI
DO

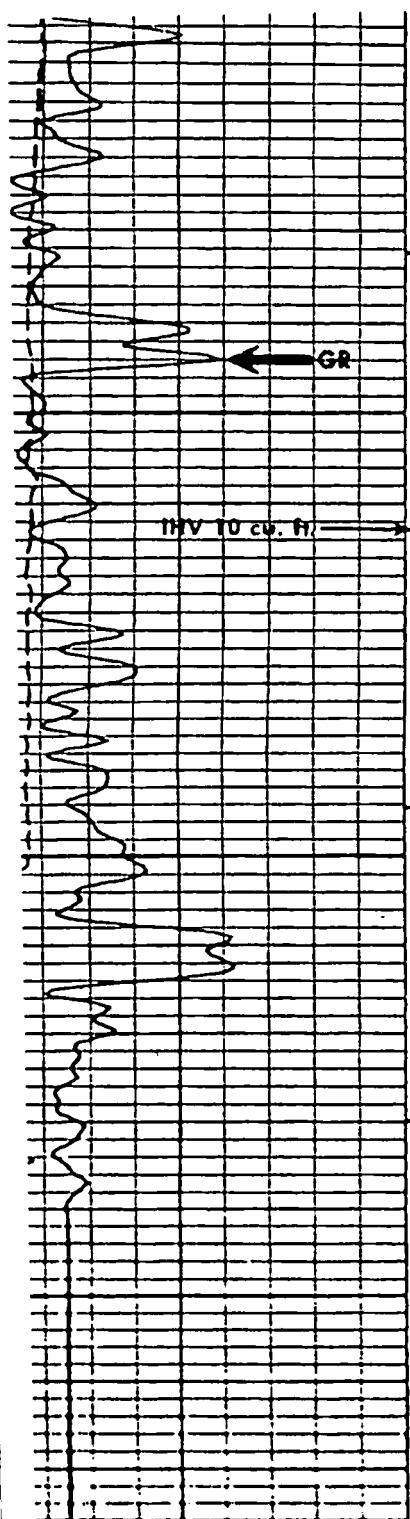
PHIX
0.0

SPT
BHS

STAN
OPEN

BS INCH 7.875

MAR-369

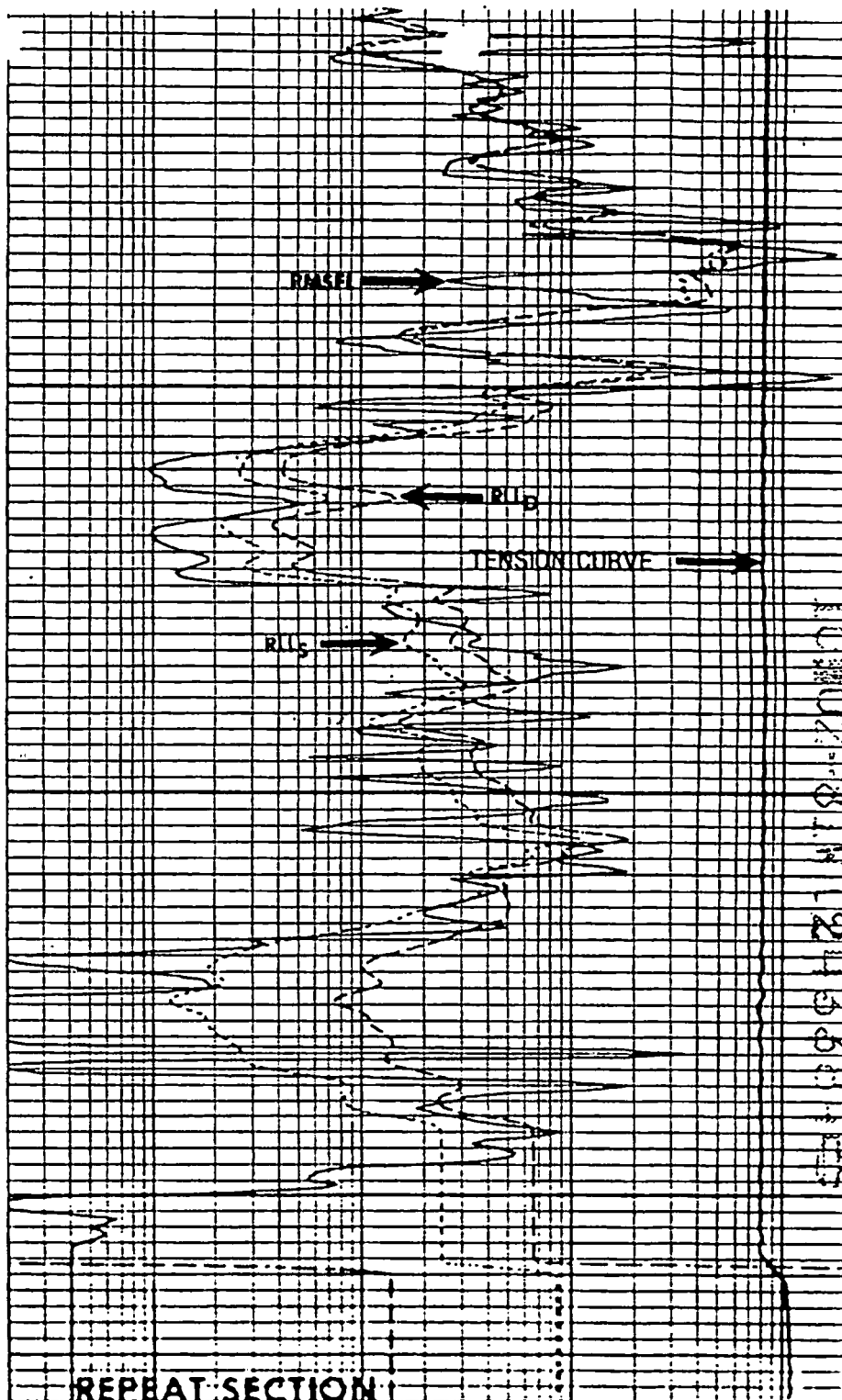


5800

5900

FILE

13



REPEAT SECTION

MAR02-0370

		2000. LLR (QMM)		TENS (LB)	
GR (CAP1)		2000.	200000	10000.	0.0
CAL 1117		0.0000	LLR (QMM)		2000.
CAL 1117		0.0117	LLS (QMM)		2000.
CAL 1117		0.0200	SAR (QMM)		2000.
CAL 1117		0.0000			

MAR-370

FPHI	PHIX	S	STAN	BS	INCH	7.875
DO	0.0	BHs	OPEN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 81/08/22
 PROGRAM FILE: DST (VERSION 18.2 81/04/25)

DSTD ELECTRONICS CALIBRATION SUMMARY

	MEASURED	CALIBRATED	UNITS
LLS	38.09	31.60	OHM
LLD	36.56	31.60	OHM

DST ELECTRONICS CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
	ZERO	PLUS	ZERO	PLUS	
CMSF	0.5	967.5	0.0	999.9	MM/M
I1	7.1	186.0	0.0	200.0	MM/M

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED		CALIBRATED	UNITS
	BKGD	JIG		
GR	48	207	165	GAPI

DST CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
	SMALL	LARGE	SMALL	LARGE	
CALI	7.4	10.7	8.0	12.0	IN

FILE

12

MPANY TEXAS OIL AND GAS CORPORATION

LL BUCKLE B NO.1

D EAST POPLAR

UNTY ROOSEVELT STATE MONTANA

SCHL. FR 5905

SCHL. TD 5906

DRLR TD 5920

Elev: KB 2119

DF ----

GL 2106

MAR-371

MAR02-0371

Poor Quality Source Document

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images have been
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To view the actual hard copy,
contact the Region VIII Records
Center at (303) 312-6473.

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MAR02-0375

[illegible]

HALLIBURTON		INVOICE NO. 323362		
P.O. BOX 6472 DALLAS, TEXAS 75224		DIRECT ANY CORRESPONDENCE TO: P.O. DRAWER 1421 DUNCAN, OKLAHOMA 73536		
DATE OF ORDER: 9/21/61		QUANTITY: 1 GLECHIE 55530		
CITY: TXO Prod Co		UNIT PRICE: 2.15		
ADDRESS: 2705 MONTANA AVE SUITE 300		AMOUNT: 25.80		
BILLING: MT 59101				
TEXAS OIL & GAS CORP. 2705 MONTANA AVE SUITE 300 BILLINGS, MT 59101		B-960566		
NET		0.1 Development Sprunge		
PRICE	DESCRIPTION	UNITS	UNIT PRICE	AMOUNT
	MILEAGE	1.5	120.00	175.60
	Pumping Charge	5308.11		1763.69
	Bulk Ticket ATT 960566			
TOTAL				3757.39

Jiff Schaefer
Thank you!

[illegible]

MAR-379

[illegible]

DATE REQUESTED 10/24/80 DATE REQUIRED ASAP AMOUNT \$ 100.00

PAYABLE TO: Board of Oil & Gas Conservation
State of Montana
ADDRESS 2535 St. John's Avenue
Billings, Montana 59102

FOR Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana
6000' Test

BILLING INSTRUCTIONS
(TO BE COMPLETED PRIOR TO APPROVAL)

TXO.

☐ PRODUCING ASSET ACQUISITION ☐ UNDEVELOPED LEASE ACQUISITION ☐ OTHER

MEMORANDUM	ACCOUNT	T/C	LE. NO.	WELL	AMOUNT

CHECK REQUEST

TXO-42

REQUESTED BY John W. Abernethy

APPROVED A. T. Bloomer

RETURN CHECK TO A. T. Bloomer, Texas Oil & Gas Corp.
2705 Montana Avenue - Billings, MT

MAR382

MAR02-0382

TEXAS OIL & GAS CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

January 16, 1981

U.S. Geological Survey
Post Office Box 2550
Billings, Montana 59103

Attention: Mr. Tom Richmond

Re: Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana

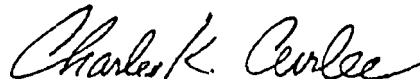
Gentlemen:

Enclosed for your review are three copies of an APD package for the above-referenced well. Contained in this package are an Application for Permit to Drill, a 9331-C Addendum (subsurface plan), and a Multipoint Surface Use and Operation Plan. A complimentary copy of this APD package has been forwarded to the Bureau of Indian Affairs, Fort Peck Reservation, Poplar, Montana.

We would appreciate an expeditious review of this application package due to rig commitments we have made. If you have any questions or need additional information, please contact either Leo Heath in our Texas Oil & Gas Corp. Billings office (telephone 406-248-4330) or me (303-861-4246).

Very truly yours,

TEXAS OIL & GAS CORP.



Charles K. Curlee
Environmental Administrator

CKC/bs
Enclosure/as stated

MAR02-0383

MAR-383

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

January 29, 1981

Oil & Gas Commission
Dept. of Natural Resources & Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "A" Well #1
Sec. 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

Enclosed for filing please find Notice of Intention to Drill in quadruplicate, along with our check no. 55759 in the amount of \$100.00 in payment of filing fee.

Thank you for your attention to this matter.

Yours very truly,
TEXAS OIL & GAS CORP.

Leo A. Heath
District Engineer

LAH:blj

Enclosures

bcc: Well File ✓
Circ File
JWA Read File

MAR 384

MAR02-0384

VENDOR		VENDOR REFERENCE		DUE VENDOR		VOUCHER		VENDOR REFERENCE		DUE VENDOR	
NUMBER	INVOICE	DATE	INVOICE	DATE	NUMBER	INVOICE	DATE	INVOICE	DATE	NUMBER	INVOICE
101739	1739	102480									
Buckles "A" #1 Section 22-T28N-R51E Roosevelt County, Montana 6000' Test				TEXAS OIL & GAS CORP. BILLINGS DISTRICT NOV - 3 1980							
100.00											
TOTAL											

ACCOUNTS PAYABLE

TEXAS OIL & GAS CORP.

FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT
FIRST NATIONAL BANK IN DALLAS
DALLAS, TEXAS

32-1
1170

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, Mt. 59102

No. 55759

DATE	AMOUNT
10-29-80	***\$100.00**

[Signature]
AUTHORIZED SIGNATURE

055759 11110000121 07 3369 11

MAR02-0385

MAR-385

PAYABLE TO: Board of Oil & Gas Conservation
State of Montana
ADDRESS: 2535 St. John's Avenue
Billings, Montana 59102

FOR Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana
6000' Test

TO BE COMPLETED PRIOR TO APPROVAL

TXO.

<input type="checkbox"/> PRODUCING ASSET ACQUISITION	<input type="checkbox"/> UNDEVELOPED LEASE ACQUISITION	<input type="checkbox"/> OTHER
--	--	--------------------------------

[illegible]

CHECK REQUEST

TXO-4

REQUESTED BY Leo A. Heath

APPROVED

RETURN
CHECK TO R. G. Becker, Texas Oil & Gas Corp.
2705 Montana Ave. - Billings, MT

MAR-386

MAR02-0386

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

February 5, 1981

Oil & Gas Commission
Dept. of Natural Resources & Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "A" #1 Well
Sec 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

We are enclosing our check no. 61393 in the amount of \$75.00 which is in payment of the filing fee for the above entitled well. We had previously sent a check to you for an incorrect amount, which you have returned to this office.

Thank you for your consideration in this matter.

Yours very truly,

TEXAS OIL & GAS CORP.

Leo A. Heath
Leo A. Heath
Production Engineer

LAH:mt

Enclosure

MAR-387

MAR02-0387

TEXAS OIL AND GAS CORP.

FIDELITY UNION TOWER DALLAS, TEXAS 75201

No. 61393

VENDOR		VENDOR REFERENCE		DUE VENDOR	VOUCHER		VENDOR REFERENCE		DUE VENDOR
VOUCHER NUMBER		INVOICE	DATE		NUMBER		INVOICE	DATE	
12414		2414	013081	75.00					
Buckles "A" #1 Section 22-T28N-R51E Roosevelt County, Montana 6000' Test					<p>TEXAS OIL & GAS CORP. BILLINGS DISTRICT FEB 05 1981</p>				

TXO-141

TOTAL

ACCOUNTS PAYABLE

TEXAS OIL & GAS CORP.

No. 61393

FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT
FIRST NATIONAL BANK IN DALLAS
DALLAS, TEXAS

32-1
1110

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, Mt. 59102

DATE	AMOUNT
2-3-81	***\$75.00**

[Signature]
AUTHORIZED SIGNATURE

⑈061393⑈ ⑆111000012⑆ 07 3369 1⑈

MAR-388

MAR02-0388

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: February 6, 1981

To: A. D. Carter, Jr. - Dallas

From: R. G. Becker - Billings

Operations Package

Re: Buckles "A" #1

East Poplar Prospect

Roosevelt County, Montana

Attached for your approval is the operations package for the Buckles "A" #1. This 6000' well will offset the Mesa Biere 1-22 in the direction of the main East Poplar oil field. The Mesa well, 1800' southwest of the proposed location, has produced 159 MBO from the Mississippian Charles "C" zone and is currently producing 15 BOPD. The large East Poplar oil field, beginning a mile northeast of the proposed location, has produced 45 MMBO from the Charles. Approximately 10' of structural advantage over the Mesa well is anticipated.

The leaseholders in the SW $\frac{1}{4}$ of Section 22 have all refused to work with us in any way which ties up their acreage. The 40 acres in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 22 is HBP by Murphy, and we are trying to get an option type farmout. It is doubtful we will be successful.

We are also attempting to get a leasehold position in the W $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 15.

Predicted economics for the Buckles "A" #1 are:

Drilling & Completion Cost	\$429,000
TXO Working Interest	100%
TXO Net Revenue Interest	83.33%
Gross Reserves	90 MBO
Initial Rate	100 BOPD
Initial Oil Price	\$32/Bbl.
Success Probability Factor	50%
ROI	3.0:1
ROR	80%
Payout	16 months
Lease Costs	\$96,000

RGB
R. G. B.

RGB:mt
Attachments

MAR-389

MAR02-0389

MAR-390

MAR02-0390

Decline rate: 30% & 20%
 Initial rate of prod.: 100 BOPD
 Remarks:

Project Name: Buckles "A" #1
 Prepared By: Leo A. Heath
 Date: January 28, 1981

TWO INVESTMENT APPRAISAL PROCEDURE
 Discounted Cash Flow (DCF) Worksheet
 (Volume in MBO; Amounts in M\$)

Column 1	2	3	4	5	6	7	8	9	10	11	11a	12	13	14	15
PERIOD	PROD'S VOLUME UNIT / YEAR	NET VOLUME UNIT / YEAR	PRICE \$/UNIT	REVENUE	CASH OPERATING EXPENSES					CASH OPERATING REVENUE	AFTER NET PROD. TAX 11 %	CAPITAL OUTLAYS	NET CASH FLOW	PRESENT VALUE AT	PRESENT VALUE AT
					VARIABLE			FIXED	TOTAL						
					TAX	O&A EXPENSE	OTHER								
0												847	(847)		
1	30	25	32	800	23	1		12	36	764	680	5	675		
2	20	17	34	578	16	1		13	32	546	486		486		
	15	12	36	432	12	1		14	27	405	360		360		
4	10	8	38	317	9	-		15	24	292	260		260		
5	7	6	40	233	7	-		16	23	210	187		187		
6	6	5		200	6	-			22	178	158		158		
7	5	4		167	5	-			21	146	130		130		
8	4	3		133	4	-			20	113	101		101		
9	3	2		100	3	-			19	81	72		72		
10	2	2	↓	67	2	-		↓	18	49	43	(24)	67		
TOTAL	90			3027							2477	827	1649		

NEW: WI = 100%
 TWO NET INTEREST = 0.8333
 TAX RATE = 2.85%
 NET PROCEEDS TAX = 11%
 O&A EXPENSE RATE = \$0.06/bbl
 OTHER VARIABLE EXPENSE (OFE):

DCF RATE OF RETURN = 80 PERCENT
 ROI = 3.0
 PAY BACK = 16 MONTHS

LIST INITIAL
CAPITAL OUTLAYS:
 SPF: 50 %

ITEMS	AMOUNT
DRILLING	226
COMPLETION	108
PRODUCTION EQUIPMENT	95
ACQUISITION	96
RISK C-1 x (DRILL+ACQ)	322
SUBTOTAL INITIAL CAPITAL OUTLAYS	847

LIST ADDITIONAL CAPITAL
OUTLAYS:

WORKOVER.	
LESS SALVAGE VALUE.	20
TOTAL CAPITAL OUTLAYS.	827

FIXED IS COMPOSED OF:

ITEM	\$ AMOUNT
A. OPEX	\$12,000/YR
B.	
C.	

WORKING CAPITAL (INVESTED IN YR 1 & RECOVERED IN LAST YEAR OF THE PROJECT)
 AVERAGE ANNUAL REVENUE X RATE = WORKING CAPITAL OUTLAY.

WELL RECOMMENDATION MEMO

Date: January 30, 1981 Prospect Name: East Poplar
Recommended by: Michael Walen Location: Sec. 22 Twp 28N Rge 51E
Well Name: Buckles A-1 County: Roosevelt State: Montana
Depth: 6000'
Primary Objective Zone: Charles "C" Zone Oil ☒ Gas ☐

Reserves & Economics

Estimated Reserves: _____ MMCF 90 MBO Risk: 50%

Reserve Method: Decline Curves

Reserve Parameters:

A: _____ Bg: _____
h: _____ RF: _____
ø: _____ Sw: _____

Economic Evaluation: Price: \$32.00/bbl
DCFRROR: 80%
ROI: 3.01:1
Payback: 16 mos.

Pipeline Delay: None Rate: 100 BOPD

Well Cost: P&A \$226,000 TXO Net \$226,000
Completed \$429,000 TXO Net \$429,000

Land

	<u>BPO</u>	<u>APD</u>
TXO Working Interest:	<u>100 %</u>	<u>100 %</u>
TXO Net Revenue Interest:	<u>83.33 %</u>	<u>83.33 %</u>
Land Cost: <u>\$ 96,000</u> Acres: <u>160</u>	Gross <u>160</u>	Net

Comments: _____

Market: Permian Distance to Pipeline Truck

Special Obligations: None

Remarks: _____

MAR02-0391

Signed: Michael B. Walen

MAR-391

EAST POPLAR PROSPECT

Texas Oil & Gas Corp. Buckles "A" #1
Section 22, T28N - R51E
Roosevelt County, Montana

The Buckles "A" #1 is to be located 1980' FNL and 1980' FWL (C SE/4 NW/4) of Section 22, Township 28 North, Range 51 East, Roosevelt County, Montana (TXO lease #46529-000). The lease is a recently issued United States Department of Interior; Bureau of Indian Affairs lease with the Assiniboine - Sioux Tribe of Indians. Mr. Austin R. Buckles is the sole Indian allottee.

The lease covers the entire NW/4 of Section 22, Township 28 North, Range 51 East and has a primary term of five (5) years and as long thereafter as oil and/or gas is produced in paying quantities. Absent of production, the lease will expire November 21, 1985. In addition, the lease cannot be extended by a shut-in well.

TXO's interest in this test shall be 100% W.I. and an 83.33% N.R.I. BPO/APO.

John P. Gilbert

MAR02-0392

MAR-392

Buckles "A" #1

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: 2/12/81

To: Kathy Sivess - Accounts Payable

From: Marion L. Taylor- Billings

Re: Return of check No. 55759

We are herewith returning Check No. 55759 issued by TXO on October 29, 1980. The check has been re-issued for a different dollar amount. This check was returned to our office by the Oil & Gas Conservation Commission here in Billings.

Thank you.

M.L.T.

TEXAS OIL & GAS CORP.

No. 55759

FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT

FIRST NATIONAL BANK IN DALLAS

DALLAS, TEXAS

32-1
1110

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, Mt. 59102

DATE	AMOUNT
10-29-80	**\$100.00**

[Signature]
AUTHORIZED SIGNATURE

Buckles A-1
Roosevelt County

⑈055759⑈ ⑈111000012⑈ 07 3369 1⑈

MAR-393

MAR02-0393

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

February 16, 1981

Mr. Howard Helmer
c/o Sherman Motor Inn
Box 879
Wolf Point, MT 59201

RE: Rehabilitation and Right-of-Way
Plans
Buckles "A" #1
Roosevelt County, Montana

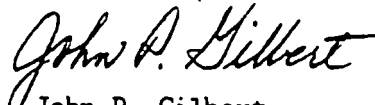
Dear Howard:

I have enclosed three (3) copies of both a Rehabilitation Plan together with a Consent of Owners to Grant of Right-of-Way which Mr. Austin R. Buckles must sign.

Upon the securing of Mr. Buckles signature, please leave a copy of each completed form with Ms. Frances Eagleman and return a copy of each to the undersigned. The additional copies are for Mr. Buckles files.

Very truly yours,

TEXAS OIL & GAS CORP.


John P. Gilbert
Area Landman

JPG:km
Enclosures

CC: Charles K. Curlee - Denver TXO

MAR02-0394

MAR-394

REHABILITATION PLAN

Lease No.: 14-20-0256-5066 ; W Name and No.: Buckles "A" ;
Location: 1980' FNL & 1980' FNL , Sec. 22 , T. 28 N. , R. 51E X

Texas Oil & Gas Corp. Oil Company intends to drill a well on
surface owned by Austin R. Buckles . The lessee/operator
agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access road and provide adequate drainage to road.

☒ Yes ☐ No Reshape and reseed any area not needed for maintenance of the
pump and support facilities.

Other requirements: _____

The following work will be completed when the well is abandoned:

☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to
surrounding topography.

☒ Yes ☐ No Water bars will be constructed as deemed necessary.

☒ Yes ☐ No Site will require reshaping to conform to surrounding topography.

☐ Yes ☒ No Entire disturbed area will be reseeded. If yes, the following
seed mixture will be used:

No, as acreage is cultivated
land

☐ Yes ☐ No *Access road will be closed, rehabilitated and reseeded using
the same seed mixture as above.

☐ Yes ☐ No *Access road will remain for surface owner's use.

☐ Yes ☐ No *Water bars will be constructed on the access road as deemed
necessary.

Other requirements: *at owners option

Surface Owner:

Name: Austin R. Buckles
Address: P.O. Box 252
City: Poplar,
State: Montana 59255
Telephone:
Date:

Operator/Lessee

Name: Texas Oil & Gas Corp.
Address: 2705 Montana Avenue, Suite 300
City: Billings.
State: Montana 59101
Telephone: 406-248-4330
Date:

I CERTIFY rehabilitation has been discussed with me, the surface owner:

(Surface owner's signature)

This plan covers rehabilitation requirements only and does not affect any other
agreements between the lessee/operator and surface owner.

MAR02-0395

MAR 395

BAO-413
April 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

CONSENT OF OWNERS TO GRANT OF RIGHT-OF-WAY

(To accompany application for right-of-way)

Fort Peck Agency, February 17, 1981
Allotment No. 129 Allottee Austin R. Buckles
Description NW¼ of Section 22, Township 28 North, Range 51 East, Roosevelt County,
Montana

The undersigned owner__ of said land hereby does (do__ not) give permission
to make surveys (and to the granting) of a access 25' in width
right-of-way thereover, as contemplated by the application of Texas Oil & Gas Corp.
_____ on the payment of a
negotiated monetary consideration in the amount of _____
_____ dollars (\$_____) for the rights granted and
severance damages or the appraised fair market value of the rights granted and
severance damages as determined by the Superintendent, whichever is greater.
Other terms or comment _____

Witnesses:

Owners:

X
Austin R. Buckles

MAR-396

MAR02-0396

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

February 17, 1981

Mr. Howard Helmer
c/o Sherman Motor Inn
Box 879
Wolf Point, MT 59201

RE: Surface Damage Receipt & Release
Buckles "A" #1
Roosevelt County, Montana

Dear Howard:

As we discussed, enclosed are three (3) copies of a Receipt and Release forms providing for the settlement of surface damages to be incurred through drilling.


Please fill in the negotiated amount and likewise on the ten (10) day draft.

Please leave a copy with Ms. Eagleman and Mr. Buckles, returning one (1) to the undersigned together with the pink and blue copy of the draft.

Thank you.

Very truly yours,

TEXAS OIL & GAS CORP.


John P. Gilbert
Area Landman

JPG:km
Enclosures

MAR02-0397

MAR 397

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: 2/18/81

To: Ron Becker ✓

From: Donald Chase

Billings, Montana

Re: BUCKLES "A" #1

ROOSEVELT COUNTY, MONTANA

Attached is approved AFE No. 810514 to drill and complete the above referenced well.


Donald Chase

DC/wb

cc: Leonard Landrum (2)
Steve Haworth
Ethel Nuttall
Lelah Sartain
Steve Graham
H. Adair
W. Webb
File

MAR02-0398

TXO-81

MAR-398

TEXAS OIL & GAS CORP.

FORM 24
Rev. 9/01/79

AUTHORITY FOR EXPENDITURE
DRILLING WELL

Date January 21, 1981 Co. Co. A

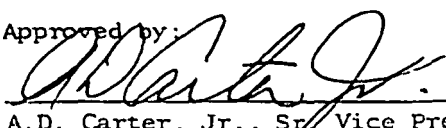
District Montana / North Dakota Well Name Buckles "A" Well No. 1

Well Location SE NW, Sec. 22, T28N, R51E Depth 6000'

Field East Poplar County Roosevelt State Montana

Prepared By: L. A. Heath Submitted By: R. G. Becker Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST					
			CASH		MAT.L ON HAND		TOTAL	
DRILLING								
01	Casing 8-5/8", 24#, K-55	1200'	11	500			11	500
02	Casinghead		2	500			2	500
03	Location, Road & Dirt Work		4	000			4	000
04	Drilling - Footage/Turnkey		120	000			120	000
05	Drilling - Daywork		20	000			20	000
06	Drilling - Rig Support		15	000			15	000
07	Bits			---				---
08	Supervision		5	000			5	000
09	Overhead		2	000			2	000
10	Mud & Chemicals		18	000			18	000
11	Cementing Services & Supplies		7	000			7	000
12	Testing & Logging		12	000			12	000
13	Rentals		5	000			5	000
14	Other IDC		2	000			2	000
15	Other Equipment		2	000			2	000
TOTAL DRILLING			226	000			226	000
COMPLETION								
17	Casing 5 1/2", 15.5 & 17#, K-55	6100'	24	400			24	400
18	Tubing 2-7/8", 6.5#, J-55	6000'	18	000			18	000
19	Wellhead		4	000			4	000
20	Subsurface Equipment	-	6	000			6	000
21	Supervision	-	3	000			3	000
22	Mud & Chemicals		2	500			2	500
23	Testing, Logging & Perforating		9	000			9	000
24	Stimulation		11	000			11	000
25	Overhead		2	000			2	000
26	Rentals		5	000			5	000
27	Service Rig		10	000			10	000
28	Cementing Services & Supplies		10	000			10	000
29	Other IDC		3	100			3	100
TOTAL COMPLETION			108	000			108	000
PRODUCTION EQUIPMENT								
32	Pumping Unit		35	000			35	000
33	Engine & Motor		5	000			5	000
34	Rods		10	000			10	000
35	Flow Lines		4	000			4	000
36	Motors		1	000			1	000
37	Installation		10	000			10	000
38	Storage		12	000			12	000
39	Separation & Treating		13	000			13	000
40	Other Equipment		5	000			5	000
TOTAL PRODUCTION EQUIPMENT			95	000			95	000
TOTALS			429	000			429	000

OWNER NAME	WORKING INTEREST	DATE APPROVED	APPROVED:
TXO	100%	2-18-81	<div>Approved by: </div> <div>A.D. Carter, Jr., Sr. Vice President</div>

AFE No. 81-0514 Property No. 46529

MAR-399

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

March 16, 1981

Mr. Ted Campen
Schlumberger Well Services
328 Petroleum Building
Billings, Montana 59101

RE: Buckles A-#1
Section 22, Township 28 North,
Range 51 East
Roosevelt County, Montana

Dear Ted:

This will confirm that Schlumberger will be logging the Texas Oil & Gas Corp. Buckles A-#1. This is a 6000' Madison test in the East Poplar Field area. Our logging program is as follows:

Dual Laterolog - GR	Base surface casing to TD.
BHC Integrated Sonic - GR	Base surface casing to TD.
FDC-CNL-GR-Cal	4000' to 6000'.

Attached is our log distribution sheet for this well.

Very truly yours,

TEXAS OIL & GAS CORP.

Michael B. Walen

Michael B. Walen
District Geologist

MBW/dg

Attach.

cc: Leo Heath
Well File

Tribal Supervisor is to get copies of all logs.

MAR02-0400

MAR-400

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

May 13, 1981

Oil & Gas Commission
Dept. of Natural Resources & Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "A" #1 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Dear Sir:

Enclosed is the Completion Report in triplicate on the Buckles "A" #1 well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath
Leo A. Heath
Project Engineer

LAH/blj

Enclosures

MAR02-0401

MAR-401

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

May 13, 1981

U.S. Dept. of Interior
Geological Survey
P.O. Box 2550
Billings, MT 59103

Attn: District Engineer

Re: Buckles "A" No. 1 Well
Sec. 22, T28N-R51E
Roosevelt County, Montana

Dear Sir:

Enclosed is the "Well Completion Report" on the Buckles "A" No. 1 well with a copy of the DST #1.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath
Leo A. Heath *BJQ*
Project Engineer

LAH/blj

Enclosures

MAR02-0402

MAR 402

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

May 22, 1981

Board of Oil & Gas Conservation
of the State of Montana
P.O. Box 217
Helena, MT 59601

Re: Buckles "A" #1 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

Enclosed you will find the Producers Certificate of Compliance
and Authorization to Transport Oil or Gas from Lease, original
and two copies for the above mentioned well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath

Leo A. Heath
Project Engineer

Bxg.

LAH/bj
Enclosures

MAR02-0403

MAR-403

TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

P.O. BOX 217
HELENA, MONTANA 59601

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL OR GAS FROM LEASE

Lease Buckles "A" #1 (Sec.) 22 (Twp.) 28N (Rge.) 51E County Roosevelt
 Producer Texas Oil & Gas Corp. Organization No. _____ Field East Poplar
 Address all correspondence concerning this form to Texas Oil & Gas Corp.
2705 Montana Ave. Suite 300 City Billings State Montana 59101
 The above named producer hereby authorizes Marathon Oil Company
 (Name of Transporter)
 Whose principal place of business 539 South Main St., Findley, OH 45840
 (Street) (City) (State)
 And whose field address is P.O. Box 594, Stanley, ND 58784
 To transport 100 % of the oil ~~or gas~~ produced from the lease designated above until further notice.

Other transporters transporting oil or gas from this lease are:

None _____ % _____ %
 (Name of Transporter) (Name of Transporter)

The undersigned certifies that the rules and regulations of the Montana Board of Oil and Gas Conservation have been complied with except as noted below and that the transporter(s) authorized to transport the percentage of oil or gas produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until canceled by the Producer

Executed this _____ day of _____, 19____.

Approved May 26, 1981

By D. Rickman
 (Secretary-Counsel)

TEXAS OIL & GAS CORP.

(Company or Operator)

R.G. Becker Project Manager
 (Agent) (Title)

R.G. Becker

—REMARKS OR SPECIAL INSTRUCTIONS—

MAR02-0404

(FOLLOW INSTRUCTIONS ON REVERSE SIDE)

MAR 404



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
P.O. Box 2550
Billings, Montana 59103

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
June 4, 1981
JUN 5 1981

Texas Oil & Gas Corporation
2705 Montana Ave., Suite 300
Billings, MT 59101

Re: Oil and Gas Lease Ft. Peck A1. 14-20-0256-5066

Gentlemen:

We have not yet received the reports checked below pertaining to your well No. A-1 located in the SE NW Sec. 22, T. 28 N, R. 51 E, Roosevelt County, Montana.

Form 9-331, Sundry Notices and Reports on Wells, Notice of Intention to Abandon. (3 copies)

Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Abandonment. (3 copies)

Form 9-330, Well Completion or Recompletion Report and Log, covering drilling operations, and well status. (2 copies)

XX E-Logs - (30 CFR 221.59 requires that duplicate copies of all types of wire logs, sample logs, drilling time logs and other well surveys must be filed.) (2 copies)

XX Geologists Report. (2 copies)

Please submit these reports to this office at your earliest convenience, so that our files may be completed.

Thank you.

Sincerely yours,

Thomas P. Richmond
District Supervisor



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

MAR02-0405

MAR-405

TEXAS OIL AND GAS CORP.
REQUEST FOR OIL CONDENSATE CERTIFICATION

DATE: 6/4/81

REGISTERED BY: Leo A. Heath

TNO PROPERTY NAME Buckles "A" #1 TNO PROPERTY NO. 46529

LOCATION/LEGAL DESCRIPTION SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 22, T28N, R51E

COUNTY Roosevelt STATE Montana

PURCHASER Marathon Oil Company PURCHASER I.D. NO. _____

(Check if Dallas Office should arrange for Purchaser).

(Est.) DATE OF FIRST SALE 5/13/81

COMPLETION DATE 5/4/81 ZONE Charles "C" OVERALL PERFORATIONS 5796 - 5800

RECOMPLETION DATE _____ ZONE _____ OVERALL PERFORATIONS _____

PURCHASER'S CRUDE DESCRIPTION Sweet
(Oklahoma Sweet, West Texas Sour, etc.)

APPROPRIATE CERTIFICATION REQUESTED:

1. X Newly Discovered Crude or Condensate
Property as defined in 1972
Did not produce crude in 1978
From this reservoir

VERIFIED BY

Land: _____
Eng.: *W. B. Baker*
Geo.: _____

2. _____ Stripper Oil
Attach production statistics for 12 month applicable period showing
for associated wells only by months: a) barrels; b) producing days;
c) number of wells on property. Show calculation of average barrels
per produced day per well for applicable 12 months. (Must be less
than 10.)
3. _____ BPCL
Attach production for property for 1972 or 1975.
4. _____ Heavy Crude
5. _____ Exception Relief

REMARKS: _____

MAR-406

MAR02-0406

MAR-407

Warren H. Helmer

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

October 16, 1981

USGS
Oil & Gas Conservation Div.
P.O. Box 2550
Billings, MT 59103

ATTN: Mr. Jim Mitchell

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

OCT 27 1981

RE: Request for Pit Approval
Buckles "A" #1
Contract No. 14-20-0256-5066
Sec. 22, T28N, R51E
Roosevelt County, Montana

Dear Mr. Mitchell:

As per a telephone conversation with Mr. Darryl Nelson of the USGS-Billings, TXO Production Corp. is requesting approval for a surface pit which is constructed as part of the Buckles "A" No. 1 producing facility. The details are as follows.

The pit is installed as a "flare pit", wherein the three flowlines which route to the pit are from the heater treater (1) gas outlet, (2) gas pressure relief valve, and (3) gas section rupture disk. In reality there is very little gas produced on the lease and a safety discharge through these lines to the pit would probably result in some oil and water discharge also. In that event, the flare pit has been lined with a standard PVC pit liner. The pit is used for safety pressure relief only and not for oil or water storage. Any fluids accumulating in the pit will be trucked out and disposed of.

The attached plan drawing shows the location of the pit with respect to the other production facilities on the lease. Please indicate your approval and return a copy of this letter for our files.

Sincerely,

TXO PRODUCTION CORP.

Leo A. Heath

Leo A. Heath
Project Engineer

Approval is granted provided that less than 5 barrels of fluid per day (on a monthly ave. basis) is disposed of into the pit.

Approved by

J. G. Gilly

Title ACTING DISTRICT SUPERVISOR

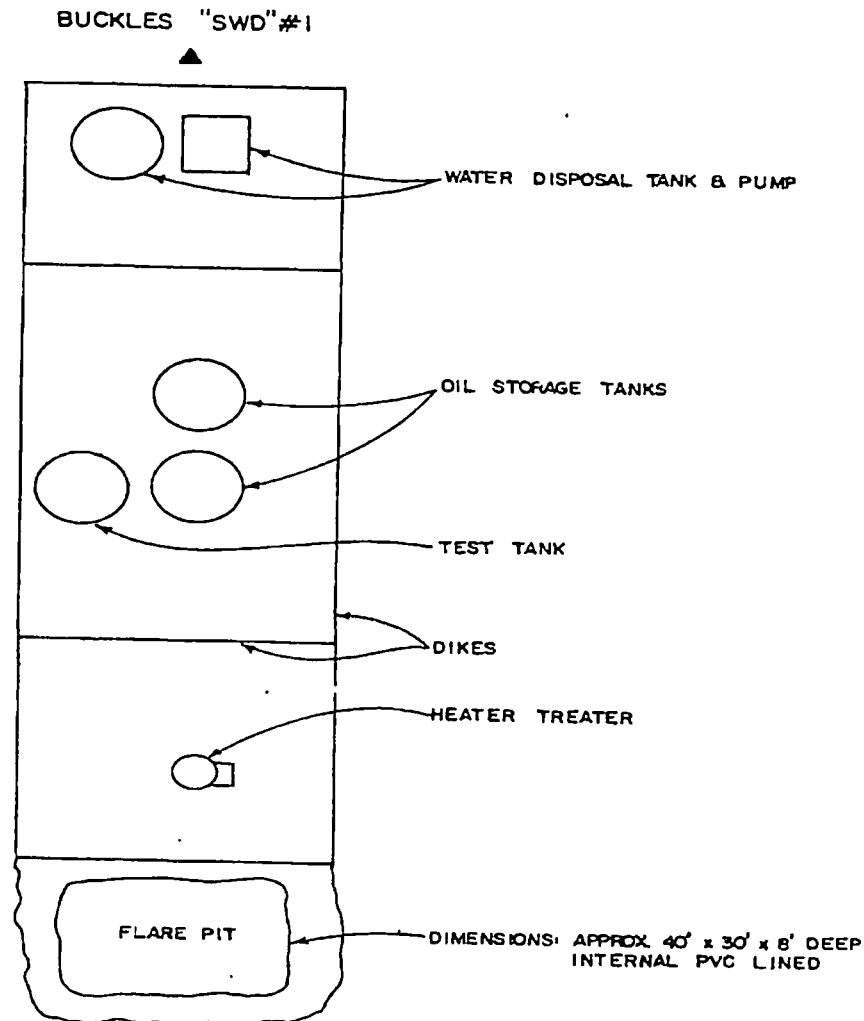
Date OCT 26 1981

MAR02-0408

MAR-408

TXO - BUCKLES "A" #1
PLAN OF PRODUCING FACILITY

U. S. Geological Survey
RECEIVED
OCT 19 1981
Billings, Montana



MAR02-0409

LAH 10-16-81

MAR-409

**DRESSER
INDUSTRIES**

DRESSER

Magcobar Group

Inter-Office Correspondence

Mr. Ray Reede
To Murphy Oil Corp.
Box 547
From Poplar, Mt.

Date: November 26, 1981

Subject: 6-D SWD

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

DEC 7 1981

Copy to Allan A. Anderson

Dear Mr. Reede:

Equipment repairs due to corrosion can be very costly. Di-Chem E-200-WB a water soluble amine corrosion inhibitor can be used to protect this fine system.

Recommendation: Inject Di-Chem E-200-WB at a dosage rate of (25 parts per million) one quart to every 250 barrels water per day.

Monitoring: Maintenance records along with coupon analysis will ensure the effectiveness of this program.

Di-Chem E-200-WB has an exceptionally high degree of film persistency. The surfactancy of this product will help keep the system clean of deposits. Application is no problem as the product is winterized to 40° below zero Farenheit.

Thank you Ray, for allowing Dresser Di-Chem and myself to be of service to and Murphy oil Corporation.

Respectfully,

Allan A. Anderson
Allan A. Anderson
District Salesman
Williston, North Dakota

cc: Jerry Hagadon

R.J. Gray

MAR02-0410

MAGCOBAR NORTH AMERICA

MAGCOBAR INTERNATIONAL

MAGCOBAR MINERALS

MAR-410

Fort Peck Tribal Research Program

P. O. Box 1338
Poplar, Montana 59255
406-768-5331

May 24, 1982

Production Manager
Texas Oil & Gas Corp.
Fidelity Union Tower
Dallas, Texas 75201

RECEIVED
WF - Buckles #1
MAY - 4 1982
TEXAS OIL & GAS CORP.
DENVER DISTRICT

Dear Sir:

The Tribal Research Office on the Fort Peck Reservation located in Poplar, Montana would like to request a listing of all storage tanks used on both Tribal and allotted lands. We need both standard measurements and an actual strapping of each of these tanks. The Research Office is contracted under the Bureau of Indian Affairs to police, verify, and monitor all oil production on the Fort Peck Indian Reservation. Thank you for your time and cooperation.

Sincerely,

John K. Dupree
John K. Dupree by MH
Research Director

To: Wagon
John
Ed
Tom Craft
has taken care
of this matter.
John Gilbert

MAR02-0411

MAR-411

TXO

TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Engineering

~~ESQ #1~~

WF

Date: August 20, 1982

To: Charlie Canfield

From: S. G. Tillman

Re: Buckles "A" #1

Attached for your information is an approved AFE to perform surface repairs on the referenced well. Additional details are contained in the attached memo from Ed Quinlan.

SGT

SGT

SGT/dkc

MAR02-0412

MAR-412

AUTHORITY FOR EXPENDITURE
WORKOVER - RECOMPLETIONA
Co. Cd.Date 8/20/82

District Denver Well Name Buckles A Well No. #1
Well Location 1980' FNL, 1980' FWL Section 22 - T28N - R51E Depth 5937'
Field East Poplar County Roosevelt State Montana
Reason Work Required Corrosion leak in flow line

Results Expected Regain production of 12 BOPD

Work to Begin _____ Estimated Date of Completion _____

Prepared By E.J. Quinlan, IIISubmitted By Paul

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST		
			CASH	MAT'L ON HAND	TOTAL
EQUIPMENT					
01	Casing				
02	Tubing				
03	Wellhead				
04	Pumping Unit				
05	Engine & Motor				
06	Rods				
07	Subsurface Equipment				
08	Flow Lines <u>Fiberglass line</u>	400'	1,500		1,500
09	Installation		4,000		4,000
10	Storage				
11	Separation & Treating				
12	Other Equipment <u>Injection Pump Liners</u>		3,000		3,000
	<u>+ Pulsation Damper</u>	<u>1400</u> <u>inches</u>			
TOTAL EQUIPMENT			8,500		8,500
SERVICES & SUPPLIES					
14	Supervision				
15	Mud & Chemicals				
16	Cementing Services & Supplies				
17	Testing, Logging & Perforating				
18	Stimulation				
19	Rig				
20	Rentals				
21	Location, Road & Dirt Work		5,000		5,000
22	Overhead				
23	Other <u>Trucking</u>		1,500		1,500
TOTAL SERVICES & SUPPLIES			6,500		6,500
TOTALS			15,000		15,000

WI OWNER NAME
TXO Production Corp.

BILLING INT
(7 decimals)
1.0000000

DATE
APPROVED
8/20/82

APPROVED: (this space for approval only)

Stephen G. Tillman
Stephen G. Tillman
Senior Vice President &
District Manager

MAR02-0413

MAR-413

TXO PRODUCTION CORP.

Inter-Office Memorandum

Date: August 25, 1982

To: Leonard Landrum

From: Donald Chase
Re: Buckles "A" #1 #46529 *Contract file*
Roosevelt County, Montana

Attached is approved A.F.E. No. #82 4154 to workover the above referenced well.

Donald Chase

Donald Chase

MAR02-0414

DC/pg

MAR-414

AUTHORITY FOR EXPENDITURE
WORKOVER - RECOMPLETION

A | 1 |
Co. Cd.

Date 8/20/82

District Denver Well Name Buckles A Well No. #1
Well Location 1980' FNL, 1980' FWL Section 22 - T28N - R51E Depth 5937'
Field East Poplar County Roosevelt State Montana
Reason Work Required Corrosion leak in flow line

Results Expected Regain production of 12 BOPD

Work to Begin _____ Estimated Date of Completion _____
Prepared By E. J. Quinlan, III Submitted By Paul

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST				
			CASH		MAT'L ON HAND		TOTAL
EQUIPMENT							
01	Casing						
02	Tubing						
03	Wellhead						
04	Pumping Unit						
05	Engine & Motor						
06	Rods						
07	Subsurface Equipment						
08	Flow Lines Fiberglass line	400'	1,500				1,500
09	Installation		4,000				4,000
10	Storage						
11	Separation & Treating						
12	Other Equipment Injection Pump Liners		3,000				3,000
TOTAL EQUIPMENT			8,500				8,500
SERVICES & SUPPLIES							
14	Supervision						
15	Mud & Chemicals	TXO PRODUCTION CORP.					
16	Cementing Services & Supplies						
17	Testing, Logging & Perforating	AUG 24 1982					
18	Stimulation						
19	Rig	DALLAS OPERATIONS					
20	Rentals						
21	Location, Road & Dirt Work		5,000				5,000
22	Overhead						
23	Other Trucking		1,500				1,500
TOTAL SERVICES & SUPPLIES			6,500				6,500
TOTALS			15,000				15,000

MAR02-0415

MAR-415

Well File



United States Department of the Interior

Bureau of Land Management
P.O. Box 1838
Dickinson, North Dakota 58601

701-225-0488

TXO Prod. Co.
Suite 300
2705 Montana Ave.
Billings, Montana 59101

December 29, 1982

Re: NTL-2B Application for Salt Water Disposal is needed
for the following well:

Buckles "A" #1
SE NW
Sec. 22, T28N, R51E
F.P. AL-14-20-0256-5066

Gentlemen:

A review of the above referenced well file indicates that there was no record of an NTL-2B Application submitted to our office after initial production. If you have our District Supervisor's approval in the form of his signature on an NTL-2B Application, then mail a copy to us so that our office has proof.

30 CFR (Code of Federal Regulations) 221.4 and 221.32 states that lessees and operators are required to file a NTL-2B Salt Water Disposal Application for any oil and/or gas well producing water on a Federal lease. NTL-2B procedures must be in compliance and the enclosed instructions must be followed. Your application for Salt Water Disposal must be received by our office in the form of a Sundry Notice within 15 working days upon receipt of this letter. A current water analysis and the enclosed checklist must be completed and attached to this Sundry Notice. Otherwise, TXO Prod. Co. is in non-compliance and subject to shut-in in accordance with 30 CFR 221.53.

If you have any questions concerning the NTL-2B process, call Warren Korinek, Jr. in Billings, Montana, at (406) 657-6367.

Sincerely yours,

Allen C. Ollila

Acting Ass't District Supervisor

MAR02-0416

MAR-416

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH 13. STATE

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE _____ DATE _____

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

MAR02-0417

MAR-417

NTL-2B Guideline and checklist

Operator: _____ Well Name/No.: _____
Lease: _____ County: _____ State: _____
Well Location: _____ Sec.: _____ T: _____ R: _____
Prod. formation: _____ Interval: _____
BWPD: _____ PPM: _____ TDS: _____ ph: _____
Water Analysis available: _____

Disposal by: Truck: _____ pipeline: _____
Disposed in: Disposal Well: _____ Injection well: _____
Well operator: _____ Well name/No.: _____
Well Location: _____ Sec.: _____ T: _____ R: _____
Lease No.: _____ Date well approved - Fed.: _____ State: _____
Disposal fm: _____ Interval: _____
Disposal fm PPM: _____ TDS: _____ ph: _____

Disposed in: Lined pit _____ unlined pit _____
Pit size: _____ pit lining: _____
Leak detection type: _____
Percolation rate: _____
Evaporation rate (compensated for rainfall): _____

NTL 2B Application Approved... Disapproved...
By _____ Date _____
Comments: _____

MAR02-0418

MAR-418

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION DIVISION

Notice to Lessees and Operators
of Federal and Indian Oil and Gas Leases
(NTL-2B)

Disposal of Produced Water

This Notice supersedes NTL-2 and 2A and is issued pursuant to the authority prescribed in 30 CFR 221.4 and 221.32. Lessees and operators of onshore Federal and Indian oil and gas leases or fee and State leases committed to federally supervised unitized or communitized areas shall comply with the following requirements for the handling, storing, or disposing of water produced from oil and gas wells on such leases.

As used in this Notice, the term "District Engineer" means the District Engineer, U.S. Geological Survey. However, in the State of Alaska, the requirements of this Notice will be administered by the Area Oil and Gas Supervisor.

I DISPOSAL REQUIREMENTS AND APPLICATIONS FOR APPROVAL OF DISPOSAL METHODS

By October 1, 1977, all produced water from the above said leases must be disposed of by (1) injection into the subsurface; (2) lined pits; or, (3) by other acceptable methods. All such disposal methods must be approved in writing by the District Engineer regardless of the physical location of the disposal facility. Any method of disposal which has not been approved as of October 1, 1977, will be considered as an incident of noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by the District Engineer. Lessees and operators are encouraged to file applications in this regard as promptly as possible and are forewarned that applications for approval of existing disposal facilities which are filed after July 1, 1977, may not be timely approved.

MAR02-0419

MAR-419

No additional approval is required for facilities previously approved by the Geological Survey which involve the disposal of produced water into the subsurface or in lined surface pits. Likewise, no further approval is necessary for existing injection facilities utilized for pressure maintenance or secondary recovery operations.

Lessees and operators who are presently disposing of water in unlined surface pits must timely file applications with the District Engineer for approval of present or proposed disposal methods. Likewise, lessees and operators who are presently disposing of produced water in the subsurface or in lined surface pits without approval of the Geological Survey must also file applications for approval thereof by the District Engineer.

The District Engineer may require modification of any disposal facility prior to October 1, 1977, whenever it is determined that continued use of such facility is endangering the fresh water in the area or is otherwise adversely affecting the environment.

Any application to dispose of produced water must specify the proposed method of disposal and provide the information necessary to justify the method. Required information which must be included in applications for approval of produced water disposal in the subsurface, in lined pits, or in unlined pits is set forth in Sections II, III, and IV, respectively, of this Notice. Additional information may be required by the District Engineer in individual cases. Previous applications filed in response to NTL-2 and NTL-2A which do not meet the data requirements of this Notice must be supplemented or resubmitted.

A single application may be submitted for several leases or facilities provided that (1) the leases or facilities are located in the same field; (2) the produced water is from the same formation or is of similar quality; (3) the volume and source of the water is shown separately for each disposal facility; and, (4) the method of disposal is the same in every case.

II DISPOSAL IN THE SUBSURFACE

If approval is requested for subsurface water injection in connection with secondary recovery operations or for disposal purposes, the lessee or operator must furnish information which includes:

1. The designated name and number of the proposed disposal well and its location in feet and direction from the nearest section lines of an established survey. The applicable Federal or Indian oil and gas lease number or other permit and/or the ownership of the surface and minerals if other than Federal or Indian.
2. The daily quantity and sources of the produced water and a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.
3. The injection formation and interval.
4. The quality of the fluids in the injection interval, i.e., total dissolved solids.
5. The depth and areal extent of all usable water (i.e., less than 10,000 ppm total dissolved solids) aquifers in the area.
6. The size, weight, grade and casing points of all casing strings, the size hole drilled to accommodate each string, the amount and type of cement, including additives used in cementing each string, and the top of the cement behind each casing string. In addition, bond logs may be required in certain instances.
7. The total and plugged back depth of the well.
8. The present or proposed method of completing the well for injection including the type and size of tubing and packer to be utilized, the setting depth of the packer, anticipated injection pressure, and information concerning any corrosion inhibitor fluid which is to be placed in the tubing-casing annulus.
9. Plans for monitoring the system to assure that injection is confined to the injection interval and measures to be taken should it be necessary to shut-in the disposal system.

In order to be approved, subsurface disposal must be confined (1) to formations which contain water of similar or poorer quality than the injected water or (2) to formations that contain water of such poor quality as to eliminate any practical use thereof.

In general, it will be required that subsurface disposal be accomplished through tubing utilizing a packer which is designed to hold pressure from above and below. The packer should be set at a depth where the casing is protected by competent cement but normally not more than 50 feet above the injection interval. Other procedures or methods of subsurface disposal may be approved by the District Engineer when justified by the lessee or operator.

III DISPOSAL IN LINED PITS

Where approval is requested for surface disposal in a lined pit, the lessee or operator must supply information which includes:

1. A topographic map of suitable scale which shows the size and location of pit.
2. The daily quantity, sources of the produced water, and a water analysis which includes the concentrations of chlorides, sulfates, and other constituents which are toxic to animal, plant, or aquatic life.
3. The evaporation rate for the area compensated for annual rainfall.
4. The method for periodic disposal of precipitated solids.
5. The type of material to be used for lining the pit and the method of installation.
6. The method to be employed for the detection of leaks and plans for corrective action should a leak occur in the liner.

The material used in lining pits must be impervious, weather-resistant, and not subject to deterioration when contacted by hydrocarbons, aqueous acids, alkalies, fungi, or other substances likely to be contained in the produced water. Lined pits constructed after the issuance of this Notice must have an underlying gravel-filled sump and lateral system or other suitable devices for the detection of leaks. The District Engineer shall be provided an opportunity to inspect the leak detection system prior to the installation of the pit liner.

IV DISPOSAL IN UNLINED PITS

Surface disposal into unlined pits will not be considered for approval by the District Engineer unless the lessee or operator can show by application that such disposal meets any one or more of the following criteria:

1. The water to be disposed of has an annual weighted average concentration of not more than 5,000 ppm of total dissolved solids, provided that such water does not contain objectionable levels of any constituent toxic to animal, plant, or aquatic life.
2. That all, or a substantial part, of the produced water is being used for beneficial purposes. For example, produced water used for purposes such as irrigation and livestock or wildlife watering shall be considered as being beneficially used.
3. The water to be disposed of is not of poorer quality than the surface or subsurface waters in the area which reasonably might be affected by such disposal or the surface and subsurface waters are of such poor quality as to eliminate any practical use thereof.
4. The volume of water to be disposed of per facility does not exceed five barrels per day on a monthly basis.
5. The specific method of disposal has been granted a surface discharge permit under the National Pollutant Discharge Elimination System (NPDES).

Applications for approval of unlined surface pits pursuant to exception Nos. 1, 2, 3, or 4, above, must include:

1. The daily quantity and sources of the produced water and for exception Nos. 1 through 3, a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.
2. A topographic map of suitable scale which shows the size and location of the pit.
3. The evaporation rate for the area compensated for annual rainfall.
4. The estimated percolation rate based on the soil characteristics under and adjacent to the pit. →
5. The depth and areal extent of all usable water (i.e., less than 10,000 ppm total dissolved solids) aquifers in the area.

Where beneficial use is the basis for the application, the justification submitted must contain written confirmation from the user(s) and the water analysis must also include the oil and grease content, temperature, and the concentration of other constituents which are toxic to animal, plant, or aquatic life.

If the application is made on the basis that surface and subsurface fresh waters will not be affected by disposal in an unlined pit, the justification must also include:

1. Analyses of all surface and subsurface waters in the area which might reasonably be affected by the proposed disposal.
2. Maps or plats showing the location of surface waters, fresh water wells, and existing water disposal facilities within two miles of the proposed disposal facility.
3. Reasonable geologic and hydrologic evidence showing that the proposed disposal method will not adversely impact on existing water quality or major uses of such waters; the depth of the shallowest fresh water aquifer in the area and the presence of any impermeable barrier(s).
4. A copy of any State order or other authorization granted as a result of a public hearing which is pertinent to the District Engineer's consideration of the application.

If the application is for disposal pursuant to an NPDES permit, only a topographic map showing the size and location of the pit together with a copy of the approved permit and the most recent "Discharge Monitoring Report" will be required.

V GENERAL REQUIREMENTS FOR PERMANENT SURFACE PITS

Lined and unlined pits approved for water disposal shall:

1. Have adequate storage capacity to safely contain all produced water even in those months when evaporation rates are at a minimum.
2. Be constructed, maintained, and operated to prevent unauthorized surface discharges of water. Unless surface discharge is authorized, no siphon, except between pits, will be permitted.

3. Be fenced to prevent livestock or wildlife entry to the pit, when required by the District Engineer.
4. Be kept reasonably free from surface accumulations of liquid hydrocarbons by use of approved skimmer pits, settling tanks, or other suitable equipment.
5. Be located away from the established drainage patterns in the area and be constructed so as to prevent the entrance of surface water.

VI TEMPORARY USE OF SURFACE PITS

Unlined surface pits may be used for handling or storage of fluids used in drilling, redrilling, reworking, deepening, or plugging of a well provided that such facilities are promptly and properly emptied and restored upon completion of the operations. Mud or other fluids contained in such pits shall not be disposed of by cutting the pit walls without the prior authorization of the District Engineer. Until finally restored, unattended pits must be fenced to prevent access by livestock and wildlife. Unless otherwise specified by the District Engineer, unlined pits may be used for well evaluation purposes for a period of 30 days.

Unlined pits may also be retained as temporary containment pits for use only in an emergency provided such pits have been approved by the District Engineer. Any emergency use of such pits shall be reported to the District Engineer as soon as possible and the pit shall be emptied and the liquids disposed of in an approved manner within 48 hours following its use, unless such time is extended by the District Engineer.

VII DISPOSAL FACILITIES FOR NEW WELLS

With the approval of the District Engineer, produced water from wells completed after the issuance date of this Notice may be temporarily disposed of into unlined pits for a period up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer. Failure to timely file an application within the time allowed will be considered an incident of noncompliance and will be grounds for issuing a shut-in order until the application is submitted. With the approval of the District Engineer, the disposal method

may be continued pending his final determination. Once the District Engineer has determined the proper method of disposal, the lessee or operator will have until October 1, 1977, or 60 days following receipt of the District Engineer's determination, whichever is the longer, in which to make any changes necessary to bring the disposal method into compliance. However, if the disposal method then employed is endangering the fresh water in the area or otherwise constitutes a hazard to the quality of the environment, the District Engineer will direct prompt compliance with the requirements of this Notice.

VIII UNAVOIDABLE DELAY

A single extension of time not to exceed three months (six months in arctic and subarctic areas) may be granted by the District Engineer where the lessee or operator conclusively shows by application that, despite the exercise of due care and diligence, he has been unable to timely comply with the requirements of the Notice provided that such delay will not adversely affect the environment.

IX REPORTS

All unauthorized discharges or spills from disposal facilities must be reported to the District Engineer in accordance with the provisions of NTL-3.

Beginning October 1, 1978, and thereafter on an annual basis, lessees and operators must submit a report for each facility which includes the total volume disposed of during the reporting period and a current water analysis which provides the same type of information required for approval of the original application. Provided, however, that:

1. Where disposal is approved pursuant to Section IV (4), no annual water analysis will be required.
2. Where disposal is approved pursuant to a NPDES permit, a copy of the required discharge monitoring report may be submitted in lieu of the above annual report.
3. Where a single application was approved for several leases and/or facilities, a composite annual report covering all such leases and facilities may be submitted.

X COMPLIANCE

Compliance with this Notice does not relieve a lessee or operator of the responsibility for complying with more stringent applicable Federal or State water quality laws and regulations, including those which are subsequently promulgated pursuant to the Safe Drinking Water Act (P.L. 92-523), or with other written orders of the Geological Survey.

JAN 1 1977
Date

C. J. Curtis
Area Oil and Gas Supervisor

APPROVED:

Russell G. Wayland
Russell G. Wayland
Chief, Conservation Division



TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80284

TELEPHONE (303) 861-4246

January 19, 1983

U.S. Bureau of Land Management
Oil and Gas Operations
Post Office Box 2550
Billings, Montana 59103

Attention: Warren Korinek, Jr.

Re: Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

In response to the December 29, 1982 letter received from the Dickinson North Dakota BLM Oil and Gas Operations Office, a copy of an approved Sundry Notice regarding NTL-2B disposal of salt water from the above-referenced well is enclosed for your use. An NTL-2B technical information sheet is attached to the approved Sundry Notice.

The Buckles "A" #1 well is currently shut-in due to weather. TXO Production Corp. will notify your office in the event any changes in NTL-2B disposal status are contemplated.

If you have any questions or need additional information regarding the approved disposal method, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee
Environmental Manager

CKC/BS
Enclosures/as stated

MAR02-0428



BILLINGS DISTRICT

MAY 12 1981

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Texas Oil & Gas Corp.
3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Avenue Billings, MT
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space below.)
AT SURFACE: 1980' FNL, 1980' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ ☐

FRACTURE TREAT ☐ ☐

SHOOT OR ACIDIZE ☐ ☐

REPAIR WELL ☐ ☐

PULL OR ALTER CASING ☐ ☐

MULTIPLE COMPLETE ☐ ☐

CHANGE ZONES ☐ ☐

ABANDON* ☐ ☐

(other) Water Disposal Well

5. LEASE FT. PECK AL.
14-20-0256-5066
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"A" #1
10. FIELD OR WILDCAT NAME
N/A
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
15. ELEVATIONS (SHOW OF, KDB, AND WD)
2085'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Texas Oil & Gas Corp. proposes to drill a 950' water injection well for disposal of produced water from the Buckles "A" #1 well. The well would be located on the NW corner of the existing drill pad. Produced saline water would be injected into the Judith River formation at a rate of 900-950 BWPD at 400 psi injection pressure. See attached sheet for technical information.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. Buckles TITLE Project Manager DATE May 8, 1981APPROVED BY [Signature] (This space for Federal or State office use)
CONDITIONS OF APPROVAL, IF ANY: _____ ACTING SUPERVISOR DATE 5/11/81

SUBJECT TO NTL-6
APPROVAL NEEDED
FOR ADDITIONAL
SURFACE DISTURBANCE

*See Instructions on Reverse Side

MAR-429

MAR02-0429

Buckles "A" #1

NTL-2B Technical Information

Injection Well Buckles SWD #1

1. The injection formation is the Judith River Formation. The perforated interval will be 785' - 846' overall.
2. Hole size: 8 3/4" to 950' (T.D.)
Casing: 7", 17#, J-55, ST&C to 950'
Cement: 250 sks Class "G" w/2% CaCl, 1/4# sk
Cellophahe Flakes & 10# sk Gilsonite.
(Cement will be circulated to surface)
PBTD: ± 900'
3. Completion:
 - a. Run corr. log & perforate.
 - b. Run 2 7/8" tubing and tension packer.
Circ. packer fluid into annulus. Set
packer + 50' above top perf.
 - c. Run injection test. Stimulate with 15%
HCl acid, if necessary.
4. The injection system will be monitored with high and low injection pressure shutdown switches. This will allow assurance that the system is injecting into the formation as intended.

MAR02-0430

MAR-430

Aug 31, 1983

To: Ron ~~Lashner~~ ^{MDC}

From: Phillip A. Kriez

RE: Buckles A #1

Sec 22, T28N, R51E
Roosevelt County, Montana

The Buckles A #1 has produced 613 STBO since the electric motor to the salt water injection well was replaced on June 30, 1983.

The well is currently having problems with the injection well pressuring up and is producing approximately 60% of the time and shut in the rest.

The well has paid off all the previous workovers since Sept. 1982 and has had an approximate net revenue of \$14,000 for T10 assuming \$29/BBL and 6.5% Advalorem + Severance Taxes.

MAR02-0431

MAR-431



Buckles A#1
Roosevelt County, MT

Current Production since July 1983 ing

DAY	Item or Prod
Mon Day	
1 6 30	New Elec. Motor
2 7 1	Installation
3	Charge
4 7 2 20	STBO
5 3 26	"
6 4 24	"
7 5 23	"
8 6 21	"
9 7 12	"
10 7 8	Switch Repair
11	by Elect.
12 7 14 15	STBO
13 15 24	"
14 16 17	"
15 17 17	"
16 18 6	"
17 19 23	"
18 7 20 18	STBO
19 21 22	"
20 7 22 20	"
21 23 17	"
22 24 13	"
23 7 25	Down Due to
24 1	SWD HLP
25 7 29 24	STBO
26 30 9.6	"
27 7 31	Down Due to SWD HLP
28 1	
29 8 3 26	STBO
30 4 16	"
31 5 8	"
32 6 3	"
33 8 7 8	Down Due to SWD HLP
34 8 9 6	STBO
35 8 10 7	"
36 8 11	Down Due to SWD
37 1	HLP
38 8 17 19	STBO
39 18 23	"
40 19 16	"

DAY	Item or Prod	Cost	Approximate Revenue
Mon Day		\$	@ #29/BDL
1 8 20 15	STBO		435
2 21 17	"		493
3 22 12	"		348
4 23 13	"		317
5 24 6	"		174
6 25 11	"		319
7 26 7	"		203
8 27 10	"		290
9 28 17	"		493
10 29 5	"		145
11 30 19	"		551
12 31 5	"		145
13			
14			
15			
16			
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MAR02-0432

MAR-432

Sept. 28, 1983

To: Dave Cloutier

From: D. A. Krize

RE: Buckles "A" #1
Roosevelt County, Montana

As per your request, I have examined the economic standing of the Buckles "A" #1 since its workovers during the summer. The results are based on the oil being priced \$29/BBL. All the major costs are considered, however some of the minor costs for July, August, & September may not be. The results were as follows:

Since Sept. 1982

T10 Net Revenue After Costs \approx \$20,100

MAR02-0433

MAR-433

42,381 42,382 42,383 42,384 42,385 42,386 42,387 42,388 42,389 42,390 42,391 42,392 42,393 42,394 42,395 42,396 42,397 42,398 42,399 42,400



Current Economic Standing

DAY	Item or Prod.	Cost	Approximate Revenue	Total Revenue	Total T10 Revenue
Mon. Day		\$	@ #29/80.		NR1=83.33%
6 30	New Elec. Motor	985 ⁸²			
7 1	Installation Charge	400 ⁰⁰			
7 2	20 STBO		580 ⁰⁰	580	
7 3	26 "		754 ⁰⁰	1334	
7 4	24 "		696	2030	
7 5	23 "		667	2697	
7 6	21 "		609	3306	
7 7	12 "		348	3654	
7 8	Switch Repair	540 ⁴⁰			
7 14	↓ by Elect. STBO		435	4089	
7 15	24 "		696	4785	
7 16	17 "		493	5278	
7 17	17 "		493	5771	
7 18	6 "		174	5945	
7 19	23 "		667	6612	
7 20	18 STBO		522	7134	
7 21	22 "		638	7772	
7 22	20 "		580	8352	
7 23	17 "		493	8845	
7 24	13 "		377	9222	
7 25	Down Due to SWD HLP				
7 29	24 STBO		696	9918	
7 30	9.6 "		278	10196	
7 31	Down Due to SWD HLP				
8 3	26 STBO		754	10950	
8 4	16 "		464	11414	
8 5	8 "		232	11646	
8 6	3 "		87	11733	
8 7	Down Due to SWD HLP				
8 9	6 STBO		174	11907	
8 10	7 "		203	12110	
8 11	Down Due to SWD HLP				
8 17	19 STBO		551	12661	
8 18	23 "		667	13328	
8 19	16 "		464	13792	

MAR-434

[illegible]

MAR02-0435

Current Economic Standing

DAY	Item or Prod.	Cost	Approximate Revenue			
Mon Day		\$	@ \$29/BBL			
1						
2	8 20 15 STBO		435	14227		
3	21 17 "		493	14720		
4	22 12 "		348	15068		
5	23 13 "		377	15445		
6	24 6 "		174	15619		
7	25 11 "		319	15938		
8	26 7 "		203	16141		
9	27 10 "		290	16431		
10	28 17 "		493	16924		
11	29 5 "		145	17069		
12	30 19 "		551	17620		
13	31 5 "		145	17765		
14						
15	9 1 10 STBO		290	18055		
16	2 13		377	18432		
17	3 12		348	18780		
18	4 14		406	19186		
19	5 13		377	19563		
20	6 10		290	19853		
21	7 13		377	20230		
22	8 12		348	20578		
23	9 10		290	20868		
24	10 8		232	21100		
25	11 12		348	21448		
26	12 10		290	21738		
27	13 13		377	22115		
28	14 11		319	22434		
29	15 10		290	22724		
30	16 10		290	23014		
31	17 11		319	23333		
32	18 10		290	23623		
33	19 8		232	23855		
34	20 10		290	24145		
35	21 10		290	24435		
36						
37						
38						
39						
40						
				TXO Net Rev. 20362		

MAR-436

MAR02-0436

WELL RECOMMENDATION MEMO

Date: 7-1-80 Prospect Name: 11-2-20-1

Recommended by: 11-2-20-1 Location: Sec. 22 Twp 23N Rge 2E

Well Name: 11-2-20-1 County: Barren State W. Va.

Depth: 610'

Primary Objective Zone: 11-2-20-1 Oil Gas

Reserves & Economics

Estimated Reserves: MCF BO Risk:

Reserve Method: Leasing

Reserve Parameters:

A: Bg:
h: RF:
φ: Sw:

Economic Evaluation: Price: \$32.00/bbl
DCFROR: 10%
ROI: 10%
Payback: 12 months

Pipeline Delay: 12 months Rate: 200,000

Well Cost: P&A \$250,000 TXO Net \$250,000
Completed \$120,000 TXO Net \$130,000

Land

	<u>BPO</u>	<u>APO</u>
TXO Working Interest:	<u>100%</u>	<u>100%</u>
TXO Net Revenue Interest:	<u>50.00%</u>	<u>50.00%</u>
Land Cost: \$ <u>20,000</u> Acres: <u> </u>	Gross <u> </u>	Net <u> </u>

Comments:

Market: Distance to Pipeline

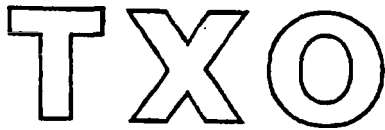
Special Obligations:

Remarks:

Signed:

MAR02-0437

MAR-437



TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: January 6, 1984

To: Phil Kriz

From: Tim Lopusser

Re: Buckles "A" #1

T28N, R51E, Sec. 22: SENW

Buckles "B" #1

T29N, R51#, Sec. 22: SWNE

Roosevelt County, MT

Please be advised that TXO lease number 46529-000, which covers 100% leasehold interest in the NW/4 of Section 22, Township 28 North, Range 51 East, will remain in effect until December 15, 1985 if the Buckles "A" #1 is plugged and abandoned and no further drilling operation are commenced.

Further, TXO lease number 46665-000, which covers 100% of the W/2NE/4 of Section 22, Township 28 North, Range 51 East, will remain in effect until June 15, 1986 if the Buckles "B" #1 is plugged and abandoned and no further drilling operations are commenced.

If any additional information is needed, please advise.


T. L.

TL/tb

MAR02-0438

MAR-438

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

WF

Date April 23, 1984

-To: Steve Tillman ✓

From: Charles Canfield

Denver District

Re: ABANDONMENT APPROVAL

Buckles "A" #1

Your recommendation to plug and abandon the subject well is approved.

Please forward all appropriate forms to this office upon the successful completion of plugging operations.

CLC
CLC

CLC:sj

cc: John Holloway
Jim Crowson
Well File

MAR02-0439

Buckles "A" #1 EWF

TEXAS OIL & GAS CORP.
FIDELITY UNION TOWER
DALLAS, TEXAS 75201

November 25, 1980

Ms. Francis Eagleman
Bureau of Indian Affairs
Superintendent Ft. Peck
P. O. Box 637
Poplar, Montana 59225

RE: Austin Buckles Lease
Archaeological Inspection

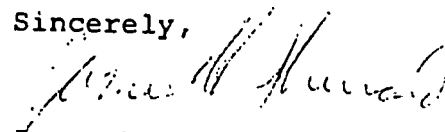
Dear Ms. Eagleman:

Texas Oil & Gas Corp. proposes to drill four (4) wells within our 160 acre Austin Buckles lease. The lease is located in the NW Quarter of Sec 22-T28N-R51E, Roosevelt County, Montana.

The four wells will be located in the center of the 40 acre quarter quarter section; SE/NW, SW/NW, NW/NW, and NE/NW.

Please initiate your archaeological inspection on the above mentioned locations. If you have any questions you can contact me in Dallas at 214-747-8341.

Sincerely,


James H. Sherrard
Environmental Administrator

JHS:nb

cc: John Gilbert - Billings
Charlie Curlee - Denver

RECEIVED
NOV - 1 1980
TEXAS OIL & GAS CORP.
DENVER DISTRICT

MAR-440

MAR02-0440

MAY 12 1981

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424well fileUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐ Billings, Montana

2. NAME OF OPERATOR
Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Avenue Billings, MT

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space below.)
AT SURFACE: 1980' FNL, 1980' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Water Disposal Well</u>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texas Oil & Gas Corp. proposes to drill a 950' water injection well for disposal of produced water from the Buckles "A" #1 well. The well would be located on the NW corner of the existing drill pad. Produced saline water would be injected into the Judith River formation at a rate of 900-950 BWPD at 400 psi injection pressure. See attached sheet for technical information.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. E. Becker TITLE Project Manager DATE May 8, 1981APPROVED BY Charles E. Lusk (This space for Federal or State office use)
CONDITIONS OF APPROVAL, IF ANY: _____ ACTING SUPERVISOR DATE 5/11/81

SUBJECT TO NTL-6
APPROVAL NEEDED
FOR ADDITIONAL
SURFACE DISTURBANCE

*See Instructions on Reverse Side

MAR02-0441

MAR-441

5. LEASE FT. PECK AL.
14-20-0256-5066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"A" #1

10. FIELD OR WILDCAT NAME
N/A

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T28N-R51E

12. COUNTY OR PARISH Roosevelt 13. STATE Montana

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Buckles "A" #1

NTL-2B Technical Information

Injection Well Buckles SWD #1

1. The injection formation is the Judith River Formation. The perforated interval will be 785' - 846' overall.
2. Hole size: 8 3/4" to 950' (T.D.)
Casing: 7", 17#, J-55, ST&C to 950'
Cement: 250 sks Class "G" w/2% CaCl, 1/4# sk
Cellophane Flakes & 10# sk Gilsonite.
(Cement will be circulated to surface)
PBTD: ± 900'
3. Completion:
 - a. Run corr. log & perforate.
 - b. Run 2 7/8" tubing and tension packer.
Circ. packer fluid into annulus. Set
packer + 50' above top perf.
 - c. Run injection test. Stimulate with 15%
HCl acid, if necessary.
4. The injection system will be monitored with high and low injection pressure shutdown switches. This will allow assurance that the system is injecting into the formation as intended.

MAR02-0442

MAR-442

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Contract No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. PROPOSED WELL LOCATION 14-20-0256-5066		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER S.W. Disposal SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Austin R. Buckles		
2. NAME OF OPERATOR Texas Oil & Gas Corp.			7. UNIT AGREEMENT NAME N/A		
3. ADDRESS OF OPERATOR Suite 300, 2705 Montana Avenue, Billings, Montana 59101			8. FARM OR LEASE NAME Buckles		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1803' FNL, 1853' FWL At proposed prod. zone 1803' FNL, 1853' FWL			9. WELL NO. "SWD" #1		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Approximately 6 miles NNE of Poplar, Montana			10. FIELD AND POOL OR WILDCAT N/A		
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 483'			11. SEC. T. R. M. OR BLE AND SURVEY OR AREA Section 22-T28N-R51E		
16. NO. OF ACRES IN LEASE 160			12. COUNTY OR PARISH Roosevelt		
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE Montana		
18. PROPOSED DEPTH 950'			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 2085' GR			22. APPROX. DATE WORK WILL START May 11, 1981		

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	17#	950'	250 SXS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R. Buckles TITLE Project Manager DATE 5-8-81
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

MAR-443

MAR02-0443

9-331 C ADDENDUM
Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana

1. SURFACE FORMATION: Bear Paw

2. ESTIMATED FORMATION TOPS:

Judith River 730'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River

Brackish Water

4. CASING PROGRAM AS PER FORM 9-331 C.

5. PRESSURE CONTROL EQUIPMENT:

A. As no abnormal pressures are expected, no pressure control equipment is to be used.

6. MUD PROGRAM;

0' - T.D. Salt Water

7. AUXILIARY EQUIPMENT:

A. A kelly cock will be available, as necessary.

B. A float at the bit will not be used.

MAR02-0444

MAR-444

- C. A gas-detecting device hot wire will not be used.
- D. A desander and/or desilter will be utilized as required.

8. CORING, LOGGING, TESTING PROGRAM:

- A. No coring is anticipated.
- B. No open hole logging is anticipated.

9. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H_2S are expected.
- C. No sloughing or washouts are expected.

10. ANTICIPATED STARTING DATES:

Spud	May 11, 1981
Complete Drilling	May 13, 1981
Completed, ready for injection	June 15, 1981

BUCKLES "A" #1
Sec. 22-T28N-R51E
Roosevelt County, Montana

P of a'd
5/25/84

no contract file
made-up.

MAR-446

MAR02-0446

THIS RECORD HAS BEEN REMOVED FROM LEAHY ARCHIVES AND SHOULD BE RETURNED FOR REFLING	
BOX NUMBER	SHELF LOCATION
ORDER NUMBER	ORDER DATE
ACCOUNT NUMBER	DEPARTMENT/OFFICE

TEXAS OIL & GAS CORP.

FORM 24

Rev. 9/01/79

AUTHORITY FOR EXPENDITURE

DRILLING WELL

Date May 6, 1981 A 115 Co. Cd.

District Montana/North Dakota

Well Name Buckles SWD

Well No. 1

Well Location Sec. 22, T28N-R51E

Depth 950'

Field E. Poplar

County Roosevelt

State Montana

Prepared By: H. J. Kagie

Submitted By: Ron Becker

Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST			
			CASH		MAT'L ON HAND	TOTAL
DRILLING						
01	Casing			200		200
02	Casinghead			---		---
03	Location, Road & Dirt Work			400		400
04	Drilling - Footage/Turnkey			---		---
05	Drilling - Daywork		12	000		12 000
06	Drilling - Rig Support		2	000		2 000
07	Bits			400		400
08	Supervision			200		200
09	Overhead			100		100
10	Mud & Chemicals			400		400
11	Cementing Services & Supplies			---		---
12	Testing & Logging			---		---
13	Rentals			300		300
14	Other IDC			---		---
15	Other Equipment			---		---
TOTAL DRILLING			16	000		16 000
COMPLETION						
17	Casing 7", 20#, K-55, ST&C	950'	10	500		10 500
18	Tubing 2 7/8", 6.5#, J-55, EUE, 8RD	900'	4	900		4 900
19	Wellhead			800		800
20	Subsurface Equipment		1	400		1 400
21	Supervision			200		200
22	Mud & Chemicals			200		200
23	Testing, Logging & Perforating		3	000		3 000
24	Stimulation		3	000		3 000
25	Overhead			100		100
26	Rentals		1	000		1 000
27	Service Rig		4	000		4 000
28	Cementing Services & Supplies		4	800		4 800
29	Other IDC			---		---
TOTAL COMPLETION			34	000		34 000
PRODUCTION EQUIPMENT						
32	Pumping Unit			---		---
33	Engine & Motor			---		---
34	Rods			---		---
35	Flow Lines		1	000		1 000
36	Meters			---		---
37	Installation		2	000		2 000
38	Storage			---		---
39	Separation & Treating			---		---
40	Other Equipment		48	000		48 000
TOTAL PRODUCTION EQUIPMENT			51	000		51 000
TOTALS			101	000		101 000

OWNER NAME

WORKING INTEREST

DATE APPROVED

TXO

100%

5-20-81

APPROVED:

A.D. Carter, Jr., Sr. Vice President

TEXAS OIL & GAS CORP.

MAY 15 1981

DALLAS - OPERATIONS

MAR02-0447

MAR-447

AFE No. 81-8653

Property No. 7839

C O N N E C T I O N N O T I C E

DISTRICT MONTANA/NORTH DAKOTA PROJECT REPORT-NO. 15 DATE 5-20-81☒ INITIAL NOTICE OF NEW CONNECTION ☐ REVISION OF PRIOR CONNECTION NOTICEOPERATOR: TXOPROPERTY/
LSE NAME: BUCKLES "A" #1 WELL NO(S): 1 TXO PROP OR LSE-A/C NO.: 46529LOCATION: SE1/4NW1/4 Section 22, T28N, R51EFIELD East Poplar COUNTY: ROOSEVELT STATE: MONTANATXO/SUB. RI/
INTEREST: WI-☒ ORR-☐ PURCHASER-☐ PROCESSING-☐ OTHER-☐CLASSIFICATION: WELL- Oil-☒ Gas/Cond-☐ Dry Gas-☐ OTHER-☐DATE 1ST PRODUCTION: OIL 5-5-81 GAS _____ PLANT PRODUCTS _____

INITIAL DELIVERY: DATE _____ PRICE BASIS _____

OIL 5-13-81 Newly discovered crude, decontrolled price.

CONDENSATE _____

PLANT PRODUCTS _____

GAS _____

NAME OF PURCHASER: _____ *SELLERS REPRESENTATIVE/PAYEE
Name & Address _____OIL Marathon Oil Company

COND. _____

PLT/PROD _____

*GAS _____

*CONTRACT: NO. _____ FULLY EXECUTED=YES-☐ NO-☐-Status _____*CONTRACT BRIEF DISTRIBUTED: YES-☐ NO-☐-Status _____

*SYSTEM CONNECTED TO: _____ % DEDICATED: _____

REMARKS / ADDITIONAL INFORMATION / REVISION DETAIL

TXO WI = 100% BPO

TEXAS OIL & GAS CORP.

JUN 03 1981

DALLAS - OPERATIONS

MAR02-0448

GAS CONTRACTS OK

MAR-448

PREPARED BY: ACX
txo-126APPROVED: R. W. Barker

rev 8/72

NGPA OK

LOCATE WELL, CORRECTLY

	D		

Form N
(Gen. Rule 206.3 and...)

(SUBMIT IN TRIPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

Company Texas Oil & Gas Corp. Lease Buckles "A" Well No. 1

Address 2705 Montana Ave. Suite 300 Billings, MT Field (or Area) East Poplar

The well is located 1980 ft. from (N) line and 1980 ft. from (W) line of Sec. 22

Sec. 22; T. 28N; R. 51E; County Roosevelt; Elevation 2097' RKB
(D.F., R.B. or G.L.)

Commenced drilling April 1, 1981; Completed May 4, 1981

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as oil well Signed Leo C. Heath
(oil well, gas well, dry hole)

Title Project Engineer

Date 5-11-81

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>5796'</u> to <u>5800'</u> <u>O, G, & W</u>	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
8 5/8"	24	K-55	ST&C	1220'	Surf	1220'	1000 sx C1	"G" N/A
							8 150 sx Cal-Seal	
5 1/2"	15.5 & 17	K-55	ST&C	5933'	Surf	5933'	120 sx @ shoe	N/A
				DV tool @ 5200'			440 sx @ DV tool	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8"	6.5	J-55	8rd	5670'	Open end

COMPLETION RECORD

Rotary tools were used from surface to 5934'
 Cable tools were used from NA to _____
 Total depth 5934' ft.; Plugged back to 5872' T.D.; Open hole from None to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval	From	To	Interval	From	To	Pressure
	5796	5800		5796	5800	Max 900 psi

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Charles "C" (pool) formation.

P. 82 barrels of oil per 24 hours Flowing
(pumping or flowing)

NR 887 Mcf. of gas per 24 hours, or 91 % W.C.
(OYR)

MAR02-0449

MAR-449

DRILL STEM TESTS

LOG RUNS

Type	From	To
DLL-MSFL	5943'	1220'
GR-CNL-FDC	5943'	3910'
GR-CNL	1500'	100'
BHC Sonic	5943'	1220'

(Need not be filled out if Geologist sample description filed with Commission)

(Use additional sheets where needed to complete description)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.Contract No. ~~5. XXXXXXXXXXXXXXXXXXXXXXXX~~

14-20-0256-5066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Buckles

9. WELL NO.

"A" No. 1

10. FIELD AND POOL, OR WILDCAT

F. Poplar

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 27-T28N-R51E

12. COUNTY OR PARISH

Roosevelt

13. STATE

Montana

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. DESGN. ☐ Other _____

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

Suite 300, 2705 Montana Ave. Billings, MT 59101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FNL & 1980' FWL

At top prod. interval reported below SAME

At total depth SAME

14. PERMIT NO.

DATE ISSUED

3-25-81

15. DATE SPCCDD

4-1-81

16. DATE T.D. REACHED

4-15-81

17. DATE COMPL. (Ready to prod.)

5-4-81

18. ELEVATIONS (DF, BSB, BT, GR, ETC.)*

2097' PKB

19. ELEV. CASINGHEAD

2085' GL

20. TOTAL DEPTH, MD & TVD

5937'

21. PLUG, BACK T.D., MD & TVD

5872'

22. IF MULTIPLE COMPL., HOW MANY*

NA

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

5937'

CABLE TOOLS

None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Top @ 5800', BTM @ 5850' Charles "C" formation

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MSFL, GR-CNL-FDC, BHC Sonic

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1220'	12 1/4"	1000 sx Class "G" & 150 sx Cal-Seal circ. to surface	N/A
5 1/2"	15 1/2 & 17#	5933'	7 7/8"	120 sx @ shoe	N/A
		DV tool @ 5200'		440 sx @ DV tool	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2 7/8"	5670'	5610'

31. PERFORATION RECORD (Interval, size and number)

5796 - 5800', .33" dia., 17 shots

32. ACID, SHOT, FRACTURE, GEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5796-5800'	250 gals. 15% HCL

MAR02-0451

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
5-4-81		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
5-10-81	24	12/64"	→	82	NR	887	NR
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
415	pkf.	→	82	NR	887	36.6	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

Texas Oil & Gas Corp.

35. LIST OF ATTACHMENTS

DST report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Leo G. Heath

TITLE Project Engineer

DATE May 11, 1981

*(See Instructions and Spaces for Additional Data on Reverse Side)

MAR-451

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CURRISON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Greenhorn	2356		Black calcareous shale
Muddy	2954		Interbedded silty sand & shale
Dakota SS	3230		Sand
Swift	3607		Silty glauconitic SS
Rierdon	4119		Silty shale, marlstone
Piper	4363		Interbedded ls & sh
Amsden	4737		Interbedded ls, dolo, minor silt stone-shale
Tyler	4863		Sand, & shale, some ls & dolo
Otter	5017		Shaly ls & dolo
Kibbey	5182		Sand & siltstone, monor ls.
Charles	5464		Ls, salt, dolomite
TD	5944		
DST #1 5780-5840	Charles "C" zone		Open 21 min. FTS 21", rec. 5840' HG 40CM Shut in 90 min. FP 2380 SIP 2933

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Greenhorn	2356	
Rierdon	4119	
Piper Ln	4363	
Kibbey Ln.	5313	
Charles	5464	
Charles "C"	5800	

MAR-452

MAR02-0452

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
MAR 10 1981

Form 9-331
Dec. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FT. PECK AL.

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. Oil ☒ well gas ☐ well other ☐

MAR 6 1981

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

Suite 300, 2705 Montana Ave., Billings, MT

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1980' FNL, 1980' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☒
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE/ Contract No.
14-20-0256-5066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"A" #1

10. FIELD OR WILDCAT NAME
N/A

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T28N-R51E

12. COUNTY OR PARISH
Roosevelt

13. STATE
Montana

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Texas Oil & Gas Corp. intends to set surface casing at 1200' rather than at 600' as initially proposed. Casing and cementing program will be as follows:

Size of Hole	Casing Size	Weight	Setting Depth	Cement Quantity
12 1/4"	8 5/8"	24# New	1200'	Circulate to Surface
7 7/8"	5 1/2"	15.5# & 17#	6000'	700 sacks

MAR02-0453

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Leo Heath by OK TITLE District Engineer DATE _____

APPROVED BY [Signature] this space for Federal or State office use
CONDITIONS OF APPROVAL, IF ANY: _____ TITLE DISTRICT SUPERVISOR DATE 3/9/81

MAR-453

(SUBMIT IN QUADRUPPLICATE)

TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

Notice of Intention to Drill	XX	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

January 27, 1981

Following is a notice of intention to do work on land owned described as follows:
report of work done leased

LEASE Buckles

MONTANA Roosevelt E. Poplar
(State) (County) (Field)
Well No. A-1 C-SE NW 22 T28N R51E MPM
(m. sec.) (Township) (Range) (Meridian)

The well is located 1980 ft. from N line and 1980 ft. from W line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or rock above the sea level is 2085'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

1. Drill 12 1/4" hole to + 1200'. Set 8 5/8", 24#, K-55, casing and cement to surface.
2. Drill 7 7/8" hole to + 6000'. Log, evaluate, and if warranted set 5 1/2", 15.5# & 17#, K-55 casing at + 6000', with 700 SX cement.
3. Perforate Mission Canyon and complete as a single oil well.

MAR02-0454

SALTWATER PITS SHALL BE IMPERMEABLE

FILING WITH THE COMMISSION ALL LOGS,
REPORTS, SURVEYS AND ANALYSES MADE
OR RUN IS REQUIRED IN ACCORDANCE WITH
RULE NO. 230.

Approved subject to conditions on reverse of form

Date FEB 9 1981

ORIGINAL SIGNED BY
By CHARLES G. District Office Agent Title

Company Texas Oil and Gas Corp.
By Leo A. Heath
Title District Engineer
2705 Montana Avenue, Suite 300
Address Billings, Montana 59101

BOARD USE ONLY
API WELL NUMBER

STATE COUNTY WELL
25 0815 21267

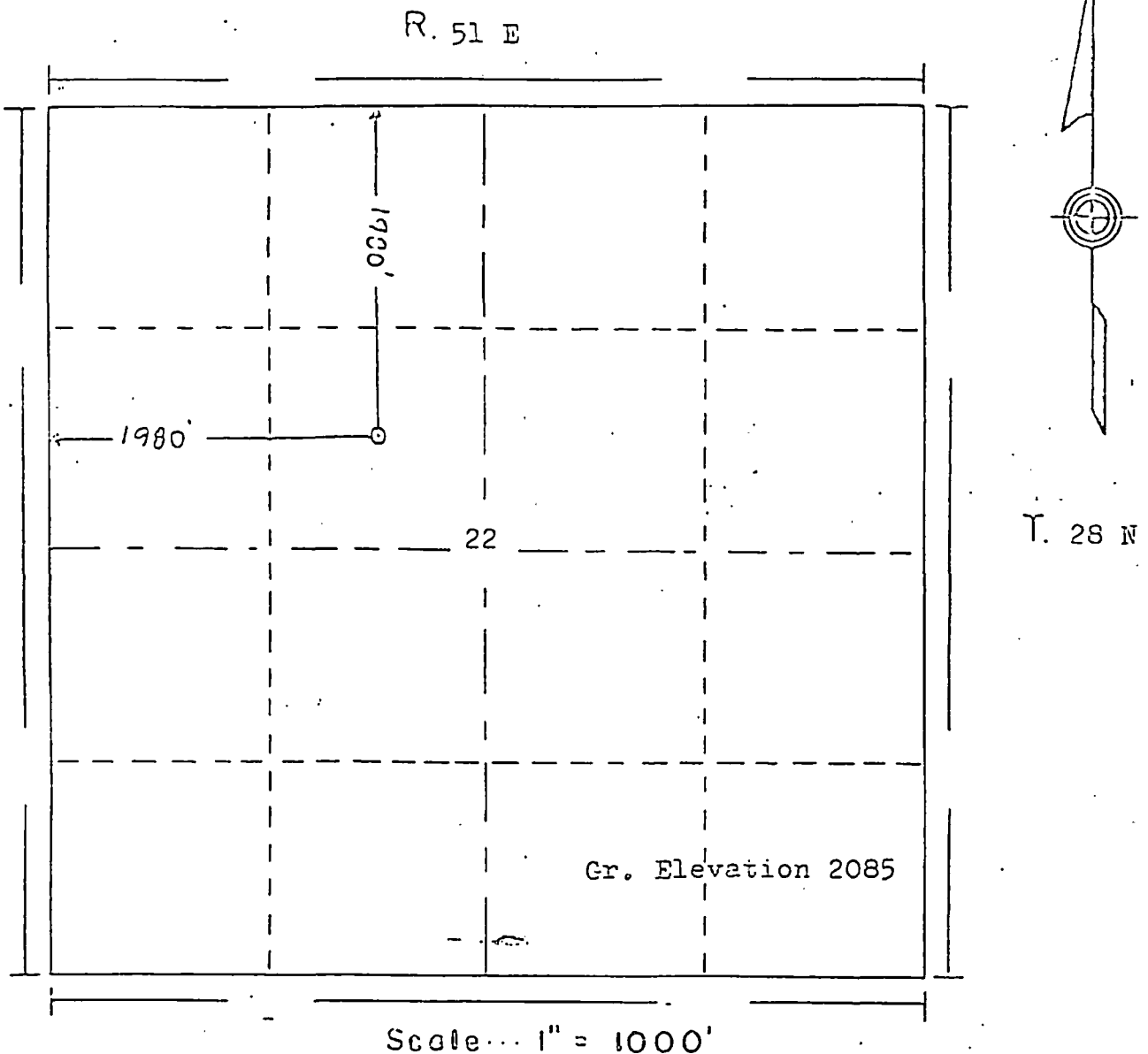
NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE

OVER

MAR-454



FORM F-106



Powers Elevation of Denver, Colorado
has in accordance with a request from Charlie Curlee
for Texas Oil & Gas Corp.
determined the location of Buckles A #1
to be 1980fml, 1980fwl Section 22 Township 28 N
Range 51 E of the Montana Principle Meridian
Roosevelt County, Montana

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
Buckles A #1

MAR02-0456

Date: 1-7-81

T. W. Allen
Licensed Land Surveyor No. 2134S
State of Montana

MAR-456

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

Suite 300, 2705 Montana Avenue, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

1980' FNL, 1980' FWL

At proposed prod. zone

1980' FNL, 1980' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 6 miles NNE of Poplar, Montana

13. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

2085' GR

22. APPROX. DATE WORK WILL START*

February 10, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	600'	450 sxs
7 7/8"	5 1/2"	15.5# & 17#	6000'	700 sxs

1. The need for a pit liner will be determined by an on-site inspection after the pit is constructed.
2. An 18" culvert will be installed where the East access road crosses the drainageway, in case the well is a producer.
3. Topsoil will be stockpiled separately to be replaced after drilling is completed. Otherwise, I concur with the proposed plan as discussed.

MAR02-0457

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

R. Becker
Ron Becker

TITLE

Project Manager

DATE

1-16-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Charles E. Laake
Charles Laake

TITLE

ACTING DISTRICT SUPERVISOR

DATE

3/25/81

CONDITIONS OF APPROVAL, IF ANY: SEE ATTACHED

ANY FLARING OR VENTING OF
GAS SUBJECT TO NTL 4-A
DATED 1/1/80

*See Instructions On Reverse Side

MAR-457

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Contract No. Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

SEP 21 1981

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Avenue, Billings, Montana

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1980' FNL, 1980' FWL
AT SURFACE: Sec. 22-T28N-R51E
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Operator Name Change

☐
☐
☐
☐
☐
☐
☐
☐
☐

5. ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~

14-20-0256-5066 ET. Beck 4

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Austin R. Buckles

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Buckles

9. WELL NO.

"A" #1

10. FIELD OR WILDCAT NAME

East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22-T28N-R51E

12. COUNTY OR PARISH 13. STATE

Roosevelt

Montana

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

2085' CR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp.", as indicated above in Item 2.

TXO CORP
BILLINGS DISTRICT

SEP 21 1981

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles K. Curlee TITLE Environmental Adm DATE Sept 21, 1981

Charles K. Curlee

(This space for Federal or State office use)

APPROVED BY [Signature] ACTING DISTRICT SUPERVISOR DATE 9/24/81

CONDITIONS OF APPROVAL, IF ANY:

MAR02-0458

MAR-458

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

MAC 36-3.18(10)-S18020
 MAC 36-3.18(10)-S18030
 MAC 36-3.18(10)-S18140
 MAC 36-3.18(10)-S18170
 MAC 36-3.18(10)-S18200
 MAC 36-3.18(10)-S18310
 MAC 36-3.18(10)-S18330
 MAC 36-3.18(14)-S18380

NOTICE
 THIS FORM BECOMES A
 PERMIT WHEN STAMPED
 APPROVED BY AN AGENT
 OF THE BOARD.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Change of Operator Name	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 7, 1981

Following is a {notice of intention to do work} on land {owned} described as follows:
 {report of work done} {leased}

LEASE Buckles

MONTANA
(State)Roosevelt
(County)E. Poplar
(Field)

Well No. A-1 22 T28N R51E MPM
 (m. sec.) (Township) (Range) (Meridian)

The well is located 1980 ft. from {N} {line and 1980 ft. from {XX} {line of Sec. 22
 {W}

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or ~~XXX~~ above the sea level is 2085'

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths in objective sands; show also, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp."

MAR02-0459

Approved subject to conditions on reverse of form

Date NOV 13 1981

ORIGINAL SIGNED BY:

By Dee Rickman, Executive Secretary
District Office Agent

Title

Company TXO Production Corp

By Leo A. Heath

Title Project Engineer

Address 2705 Montana Avenue, Suite 300

Billings, MT 59101

BOARD USE ONLY
API WELL NUMBER

NOTE:—Reports on this form to be submitted to the appropriate District for approval
 DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
 REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-459

(SUBMIT IN QUADRUPLICATE)
TOARM 36.22.307
ARM 36.22.601
ARM 36.22.602
ARM 36.22.603
ARM 36.22.604
ARM 36.22.605ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHEELER

SUNDRY NOTICES AND REPORTS OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shocking, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well <i>Produced</i>	XXXX	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 21

19 84

Following is a {notice of intention to do work} on land {owned} described as follows:
report-of-work-done leased

LEASE.....Buckles

MONTANA Roosevelt

East Poplar

Well No. "A" #1 CSE NW 22

T28N

R51E

(m. sec.)

(Township)

(Range)

(Meridian)

The well is located 1980 ft. from { N } {line and 1980 ft. from { W } {line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085.

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show also, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of shooting, acidizing, fracturing.)

DETAILS OF WORK
RESULT

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perms.
Set cmt plug 50' in & 50' out of prod csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surface.

Verbal approval was given by Claire Haughey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84

Approved subject to conditions on reverse of form

Date JUN 18 1984

By *Claire Haughey*
District Office Agent

Company TXO Production Corp.

By *M. David Cloutre*Title Drilling & Production Engineer
1800 Lincoln Center Building

Address Denver, CO 80264

BOARD USE ONLY		
API WELL NUMBER		
STATE	COUNTY	WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR02-0460

MAR-460

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other instructions
verse side)

E-
re-

Form approved. *WKT-777*
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Contract No. 14-20-0256-5066	
2. NAME OF OPERATOR TXO Production Corp. Attn: C.K. Curlee		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Austin R. Buckles	
3. ADDRESS OF OPERATOR 1800 Lincoln Center Bldg. Denver, CO 80264		7. UNIT AGREEMENT NAME ---	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FNL, 1980' FWL (SE/NW) Section 22-T28N-R51E		8. FARM OR LEASE NAME Buckles "A"	
14. PERMIT NO.		15. ELEVATIONS (Show whether DP, RT, CR, etc.) 2085' G.R.	
		9. WELL NO. 1	
		10. FIELD AND POOL, OR WILDCAT ---	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 22-T28N-R51E	
		12. COUNTY OR PARISH Roosevelt	13. STATE MT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT. <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Final Abandonment Notice (FAN) <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This is to notify you that TXO Production Corp. has completed restoration of the disturbed surface area for this P&A'd well. The well site is ready for final abandonment and bond release.

FINAL ABANDONMENT
APPROVED

JUN 1988
BUREAU OF LAND
MANAGEMENT
MINERAL DIVISION
DENVER, CO

MAR02-0461

18. I hereby certify that the foregoing is true and correct			
SIGNED	<i>Charles K. Curlee</i>	TITLE	Environmental Manager
(This space for Federal or State office use)		DATE	June 8, 1988
APPROVED BY	<i>Donald E. Dungen</i>	TITLE	ADM - Minerals
CONDITIONS OF APPROVAL, IF ANY:		DATE	JUN 1 1988

*See Instructions on Reverse Side

MAR-461

P & A - MONTANA

BUCKLES "A" #1

Roosevelt Co./22-28N-51E

- 05/23/84 5870' PBTB, RU Halliburton. Pump 50 bbls produced wtr dn tbg. Had 1250# @ 5 BPM. Pump 5 bbls fresh wtr. Pump 25 sxs Cl "G" cmt w/ .2% HR-8 retarder. Flush w/ 34 bbls produced wtr. Start to stage cmt for squeeze. Dspl w/ 35.4 bbls total @ end of squeeze. Obtain squeeze w/ 1250# TP. Bled back to 500# TP. SIFN. DW: 2050. CW: 2050.
- 05/24/84 5870' PBTB, SITP 1570#, SICP 475#. Blew dn tbg & annulus. Had no indication of fluid entry. DW: 200. CW: 2250.
- 05/26/84 5870' PBTB, RU Allison Rig #14. ND wellhead. NU BOP. Sting out of pkr. Pull up 10' w/ 2-7/8" tbg. RU Halliburton. Pump 35 sxs Cl "G" cmt from 5670-5370'. TOOH w/ tbg. ND csg head. Weld 5' pup jt on 5-1/2" csg. Attempt to pull out of slips. Pull 120,000#. Wouldn't pull out. Chain csg dn to wellhead. RU Praire WL. Attempt to RIH w/ csg cutter. Hit tight spot @ 669'. POOH. RIH w/ 4-1/2" gauge ring to 1400'. POOH. RIH w/ smaller OD cutter to 1250'. Cut csg. Csg came free, broke chain, stopped 5' out of slips. RD Praire WL. TOOH & LD 1250' of 5-1/2" csg. TIH to 1300' w/ tbg. RU Halliburton. Pump 55 sxs Cl "G" cmt from 1300-1170'. TOOH & LD tbg to 950'. Pump 50 sxs from 950-800'. TOOH & LD tbg. Pump 15 sxs @ surf. RD Halliburton. ND wellhead. RD Allison & RR @ 7:30 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 19,424. CW: 21,674.

MAR-462

MAR02-0462

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 1980' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input checked="" type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
14-20-0256-5066 Ft. Peck

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"A" #1

10. FIELD OR WILDCAT NAME
East Poplar Field

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E

12. COUNTY OR PARISH
Roosevelt

13. STATE
Montana

14. API NO.
25-085-21267

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GL, 2097' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

- Set 35 sxs cmt plug above perms.
- Set cmt plug 50' in and 50' out of prod. csg stub
- Set cmt plug 50' in and 50' out of surf csg shoe.
- Set cmt plug 25' above and 25' below Judith River
- Set 15 sxs cmt plug @ surface.

Verbal approval was given by Don Miller at the BLM's Miles City office on May 21, 1984.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Coudat TITLE Drig & Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE ADM-MINERALS DATE JUN 13 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 1980' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

- ☐
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☐
☐
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☐
☐
☐
☒

5. LEASE
100-20-0256-5066 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"A" #1
10. FIELD OR WILDCAT NAME
East Poplar Field
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH
Roosevelt
13. STATE
Montana
14. API NO.
25-085-21267
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GL, 2097' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25 sxs cmt through perfs (5796' - 5800').
2. 35 sxs cmt 5670' - 5370'.
3. 55 sxs cmt 1300' - 1170' (50' below 5 1/2" csg stub @ 1250' & 50' above 8-5/8" csg shoe @ 1220').
4. 50 sxs cmt 950' - 800' (25' above & 25' below Judith River)
5. 15 sxs cmt @ surface

Casing was cutoff below surface.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Drlg. & Prod. Engineer June 1, 1984

M. David Cloutre

(This space for Federal or State office use)

ADM-MINERALS

JUN 1 8 1984

APPROVED BY [Signature] TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MAR02-0464

*See Instructions on Reverse Side

MAR-464

TXO

CONDITIONS OF APPROVAL:

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

MAR02-0465

MAR-465

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 1980' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
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☐
☐
☐
☐
☐
☐
☒

5. LEASE

04-20-0256-5066 Ft. Peck

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"A" #1

10. FIELD OR WILDCAT NAME
East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E

12. COUNTY OR PARISH 13. STATE
Roosevelt Montana

14. API NO.
25-085-21267

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GL, 2097' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

CONDITIONS OF APPROVAL: COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent data on any proposed work. If well is abandoned, state reason.)

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

RECEIVED
DENVER ENV: DEPI.

18. I hereby certify that the foregoing is true and correct

SIGNED M. David Cloutre TITLE Drig. & Eng. June 1, 1984

APPROVED BY [Signature] TITLE ADM-MINERALS DATE JUN 15 1984

CONDITIONS OF APPROVAL, IF ANY:

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well	XXXX	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 21 1984

Following is a notice of intention to do work on land ~~owned~~ ^{leased} described as follows:

LEASE.....Buckles

.....MONTANA.....Roosevelt.....East Poplar.....
(State).....(County).....(Field).....

Well No. "A" #1 22 T28N R51E
(m. sec.) (Township) (Range) (Meridian)

The well is located1980..... ft. from { N } line and1980..... ft. from { W } line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'.....

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

Due to uneconomic production, TXO Production Corp. proposes to P&A the above well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs.
Set cmt plug 50' in & 50' out of prod csg stub.
Set cmt plug 50' in & 50' out of surf csg shoe.
Set cmt plug 25' above & 25' below Judith River.
Set 15 sxs cmt plug @ surface.

MAR02-0467

Verbal approval was given by Claire Haughey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84

Approved subject to conditions on reverse of form

Company.....AKO Production Corp......

Date

By M. David Clouatre
M. David Clouatre

By
District Office Agent Title

Title.....Drilling & Production Engineer.....
1800 Lincoln Center Building
Address.....Denver, CO 80264.....

BOARD USE ONLY														
API WELL NUMBER														
STATE					COUNTY					WELL				

NOTE:—Reports on this form to be submitted to the appropriate District for approval

OVER

MAR-467

TO

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	XXXXX
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 29, 1984

Following is a notice of intention to do work on land owned or leased report of work done described as follows:

LEASE.....Buckles

.....MONTANA.....Roosevelt.....East Poplar.....
(State).....(County).....(Field).....

Well No. "A" #1 22 28N 51E
(m. sec.) (Township) (Range) (Meridian)

The well is located 1980 ft. from } N { line and 1980 ft. from } E { line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is2085'.....

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shoveling, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 25 sxs cmt through perfs (5796'-5800').
2. 35 sxs cmt 5670'-5370'.
3. 55 sxs cmt 1300'-1170' (50' below 5½" csg stub @ 1250' & 50' above 8-5/8" csg shoe @ 1220').
4. 50 sxs cmt 950'-800' (25' above & 25' below Judith River).
5. 15 sxs cmt @ surface.

Casing was cutoff below surface.

MAR02-0468

Approved subject to conditions on reverse of form

Date

By.....
District Office Agent Title

Company 720 Production Corp.
By M. David Cloutre
M. David Cloutre
Title Drilling & Production Engineer
1800 Lincoln Center Building
Address Denver, CO 80264

[illegible]

NOTE:—Reports on this form to be submitted to the appropriate District for approval
 DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN
 REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-468

P

A

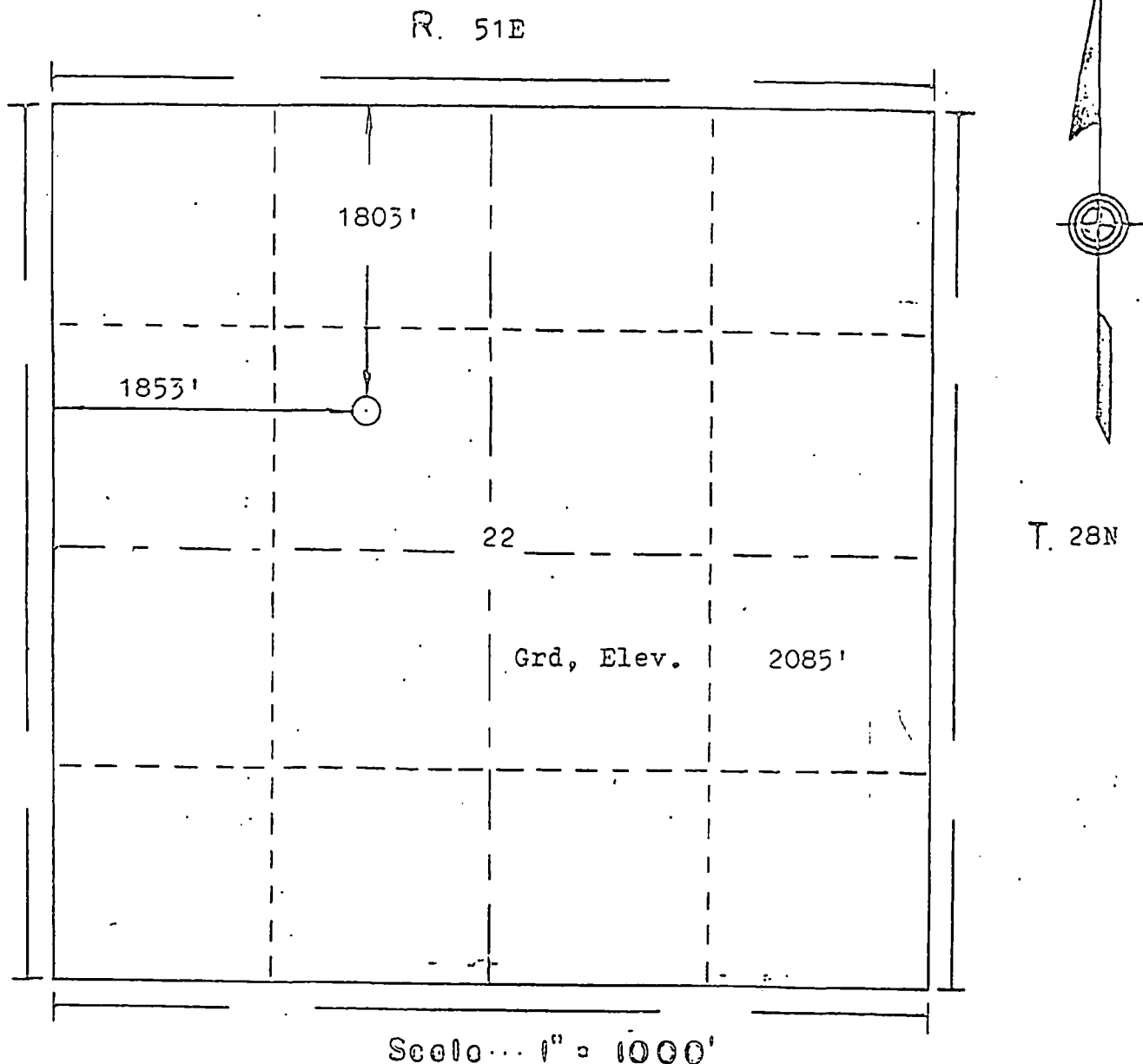
MONTANA

Buckles "A" #1
Section 22, T28N-R51E
Roosevelt County

MAR02-0469

MAR-469

Handwritten: NO 1/0



Powers Elevation of Denver, Colorado
has in accordance with a request from Joe Kagie
for Texco Oil & Gas,
determined the location of Buckles S.W.D. #1
to be 1803' in 1853' in Section 22 Township 28N
Range 51E of the Montana principal Meridian
Roosevelt County, Montana

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
Buckles S.W.D. #1

Date: 6 May 81

T. McLaughlin
Licensed Land Surveyor No. 2134S
State of Montana

MAR02-0470

MAR-470

TEXAS OIL & GAS CORP.
Proposed Well
Buckles "A" #1

- 1) Application for Permit to Drill
- 2) Multipoint Use and Operations Plan

Roosevelt County, Montana

MAR02-0471

MAR-471

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR

Suite 300, 2705 Montana Avenue, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FNL, 1980' FWL

At proposed prod. zone

1980' FNL, 1980' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 6 miles NNE of Poplar, Montana

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

2085' GR

22. APPROX. DATE WORK WILL START*

February 10, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	24#	600'	450 sxs
7 7/8"	5 1/2"	15.5# & 17#	6000'	700 sxs

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED


Ron Becker

TITLE

Project Manager

DATE

1-16-81

-(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

MAR02-0472

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

9-331 C ADDENDUM
Buckles "A" #1
Section 22-T28N-R51E ..
Roosevelt County, Montana

1. SURFACE FORMATION: Bear Paw

2. ESTIMATED FORMATION TOPS:

Judith River	730'	Tyler	4880'
Eagle	1180'	Otter	5032'
Muddy	2978'	Kibbey Sand	5194'
Dakota	3236'	Kibbey Lime	5328'
Swift	3694'	Charles	5486'
Rierdon	4142'	Charles A	5556'
Piper	4401'	Charles B	5674'
Amsden	4748'	Charles C	5826'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Oil and Gas Zones:

Judith River	Brackish Water
Muddy	Salt Water
Dakota	Salt Water
Kibbey	Salt Water
Charles	Oil

4. CASING PROGRAM AS PER FORM 9-331 C.

5. PRESSURE CONTROL EQUIPMENT:

A. After surface casing is set, a standard two-preventer system will be utilized.

B. The BOP equipment will be pressure-tested to 1,500 psi before drilling surface pipe cement, and will be tested for operation daily and during trips.

C. A diagram of the proposed installation. See Exhibit 1.

6. MUD PROGRAM;

0'	600'	Water
600'	4000'	Salt Water
4000'	TD	Saturated Salt Gel

7. AUXILIARY EQUIPMENT:

A. A kelly cock will be kept in the string at all times.

B. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string, as necessary.

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C. A gas-detecting device hot wire will be used from 3,000' to TD.

D. A desander and/or desilter will be utilized as required.

8. CORING, LOGGING, TESTING PROGRAM:

A. No coring is anticipated.

B. Possible DST in the Charles C.

C. Dual laterolog-base surface casing to T.D.

D. FDC-CNL-GR-Cal - Tyler formation to T.D.

9. ABNORMAL CONDITIONS:

A. No abnormal pressures or temperatures are expected.

B. No hazardous gases such as H₂S are expected.

C. Hole sloughing and washouts may be experienced in salt sections below 4,000'.
Appropriate control measures will be exercised.

10. ANTICIPATED STARTING DATES:

Start location construction	February 10, 1981
Spud	February 15, 1981
Complete Drilling	March 1, 1981
Completed, ready for pipeline	April 1, 1981

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion-program will be furnished after drilling and logging.

MAR-474

MAR02-0474

TEXAS OIL & GAS CORP.
MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: January 15, 1981

WELL NAME: Buckles "A" #1

LOCATION: 1980' FNL, 1980' FWL, Section 22-T28N-R51E, Roosevelt Co., Montana

I. EXISTING ROADS

- A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 1980' FNL and 1980' FWL of Section 22-T28N-R51E.
- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5 miles to Flaxville blacktop road. Turn north, proceed 4.5 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for 0.5 mile to drill site access road. The proposed drill site access road proceeds east for 0.38 mile, then 0.13 mile north.
- C. Access route to location color coded in red and labeled. Refer to Map 2.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Map 1.
- E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required for dust suppression.

2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.5 mile long will be constructed from the west section line of Section 22-T28N-R51E. The road will follow the center line of the Section east to the SE/4, NW/4 section line then north to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage.

3. LOCATION OF EXISTING WELLS

Map 3 is a one-mile radius locating and identifying the following:

- A. Water Wells - None
- B. Abandoned Wells - None
- C. Temporarily Abandoned Wells - None

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- D. Disposal Wells - None
- E. Drilling Wells - None
- F. Producing Wells - Mesa 1-22 Biere, Sec. 22-T28N-R51E
 Juniper #1-21 Poplar, Sec. 21-T28N-R51E
 Murphy Oil Unit #22, Sec. 14-T28N-R51E
 Murphy Oil Unit #55, Sec. 23-T28N-R51E
- G. Shut-In Wells - None
- H. Injection Wells - Mesa, Sec. 22-T28N-R51E
- I. Monitoring or Observation Wells for Other Reasons - None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Map 3 is a one-mile radius locating the following existing facilities owned by the lessee/operator:

- 1. Tank Batteries - None
- 2. Production Facilities - None
- 3. Oil Gathering Lines - None
- 4. Gas Gathering Lines - None
- 5. Injection Lines - None
- 6. Disposal Lines - None

- B. If new facilities are contemplated, in the event of production show:

- 1. Proposed location and attendant lines by flagging them off the well pad. Refer to Exhibit 3.
- 2. Dimensions of facilities. Refer to Exhibit 3.
- 3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.
- 4. Protective devices and measures to protect livestock and wildlife: The burn pit will be fenced with small mesh wire and flagged to protect animals. The reserve pit will be fenced to protect animals until it can be properly restored. The reserve pit will be fenced on three sides while drilling and on the fourth side after the rig moves off location.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply:- Water for drilling purposes will be purchased and hauled from a commercial water hauler. If additional state or federal permits are required, they will be obtained from the appropriate Montana State authority, or the BLM Resource Area Headquarters.
- B. Method of transporting water: Water will be transported via truck over the access road described above. No new roads will be required.
- C. If water well is to be drilled, so state: No water well is contemplated.

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6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.
- B. Identify it from Federal or Indian Land: The surface is owned by Austin R. Buckles.
- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.
- D. Show any needed access roads crossing Federal or Indian lands. Refer to Map 1.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Cuttings will be separated by screen and gravity and contained in the reserve pit and subsequently covered when the pit is filled.
- B. Drilling fluids to be contained in the reserve pit and allowed to evaporate prior to filling.
- C. Produced fluids will be contained in the reserve pit and allowed to evaporate prior to filling.
- D. Sewage - Portable toilet will be provided.
- E. Garbage will be placed in a trash pit, fenced and covered with small mesh wire for burning and burial after completion of the well.
- F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location. All pits will be filled after drying and all areas restored as under Item #10.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross-section and plan view of drill pad with cuts and fills: Refer to Exhibits 4 and 5.
- B. Location of mud tank, reserve pit, burn pit, trash pit, pipe racks and living facilities: Refer to Exhibit 6.

MAR02-0477

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- C. Rig orientation, parking area: Refer to Exhibit 6.
- D. Statement regarding pit lining: The reserve pit will be unlined for all drilling operations.

10. PLANS FOR RESTORATION OR SURFACE

- A. Backfilling, levelling, contouring and waste disposal: The reserve pit will be fenced until it can be cleaned up, then will be levelled to the original contour. The mouse and rat holes will be filled. As per Item #7, trash will be burned and buried.
- B. Revegetation and rehabilitation: Upon backfilling of the reserve and mud pits, the disturbed area will be recontoured prior to seeding; previously stockpiled topsoil will be redistributed evenly.
- C. Prior to rig release, pits will be fenced and so maintained until cleanup can be properly done.
- D. If any oil is on the pit, it will be removed or overhead flagging will be installed.
- E. Timetable for comment and completion of rehabilitation operations: Depending upon weather for rapid seed germination and standing crop, restoration should be final one year after spud date.

11. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River. The land is currently being cultivated. The nearest water source is the Poplar River, approximately 2 miles west. In addition, there are numerous intermittent (drainage) streams that follow a low ridge 0.5 mile to the east. The ridge runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes rabbits, small mammals, small and raptorial birds, and rodents.
- B. Other surface-use activities: The surface is privately-owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement with Mr. Buckles after the amount of surface disturbance is determined. This determination will not take place until the joint on-site inspection.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, there are a number of intermittent streams east of the drill site. There is a ranch house located approximately 0.6 mile south-southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.


Ronald Becker
Leo Heath - 406/656-9917 - Residence
Texas Oil & Gas Corp.
2705 Montana Ave., Suite 300
Billings, Montana 59101
406/248-4330 - Business

13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

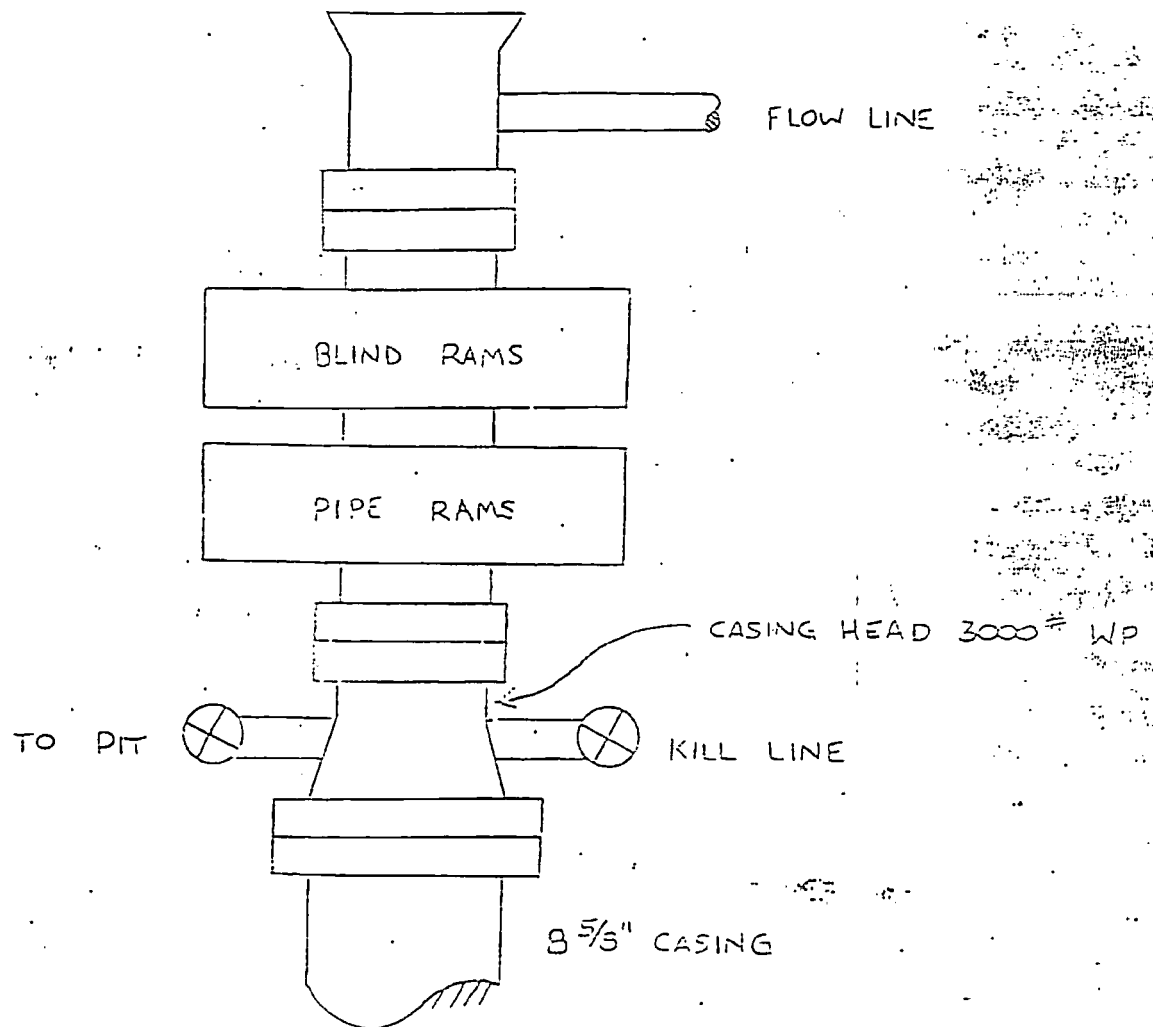
DATE: 1-16-81



Ronald Becker
Project Manager

MAR02-0479

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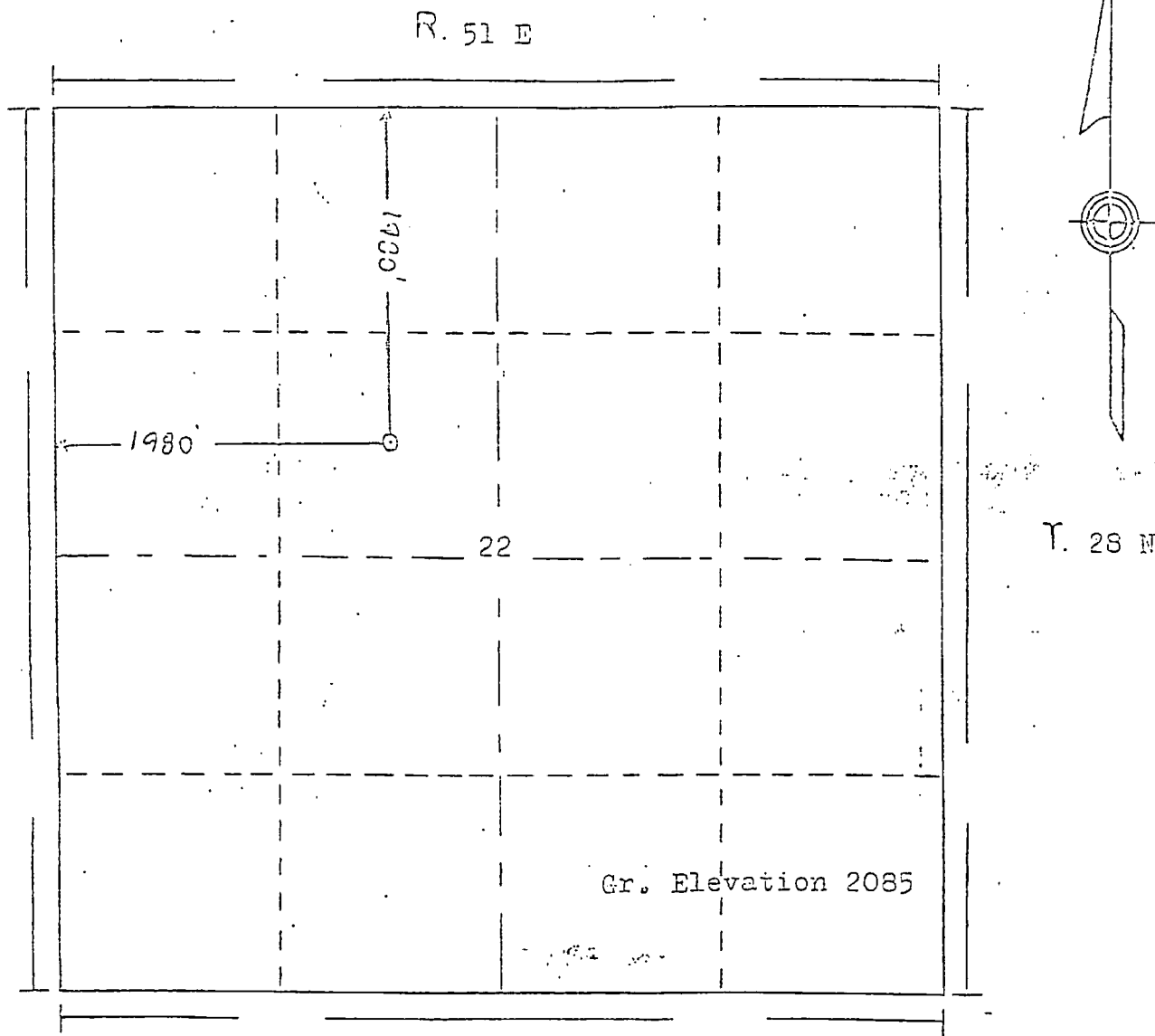
BLOWOUT PREVENTER SCHEMATIC
FOR MUD DRILLING

MAR02-0480

MAR-480



FORM F-100



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Charlie Curlee
for Texas Oil & Gas Corp. -
determined the location of Buckles A #1
to be 1980fml, 1980fml Section 22 Township 28 N
Range 51 E of the Montana Principle Meridian
Roosevelt County, Montana

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
Buckles A #1

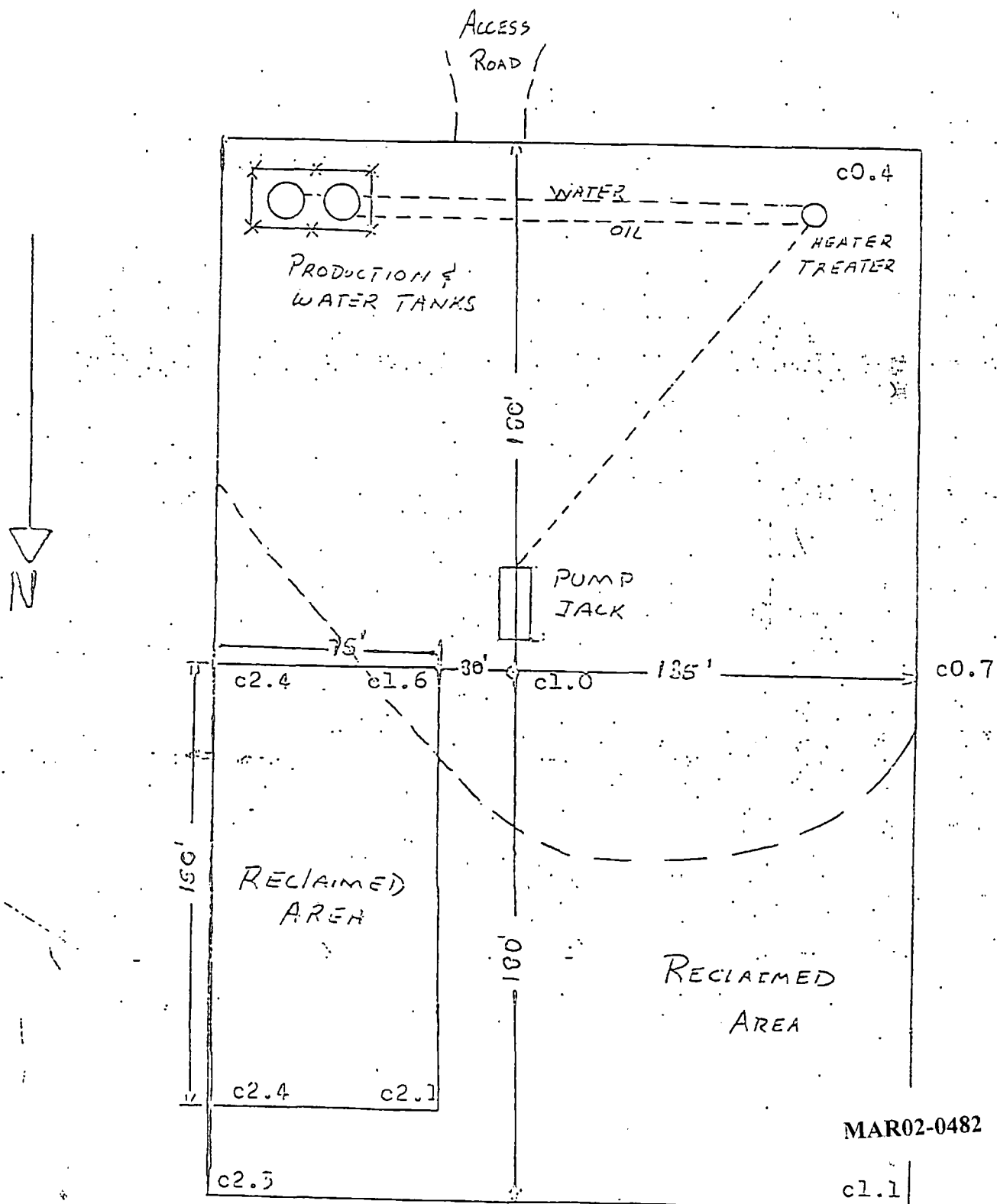
MAR02-0481

Date: 1-7-81

Licensed Land Surveyor No. 2134
State of Montana

MAR-481

Production Facilities



MAR02-0482

MAR-482

Texas Oil & Gas Corp.
Buckles A #1
Fit & Pad Layout
with Cuts & Fills

Exhibit 4

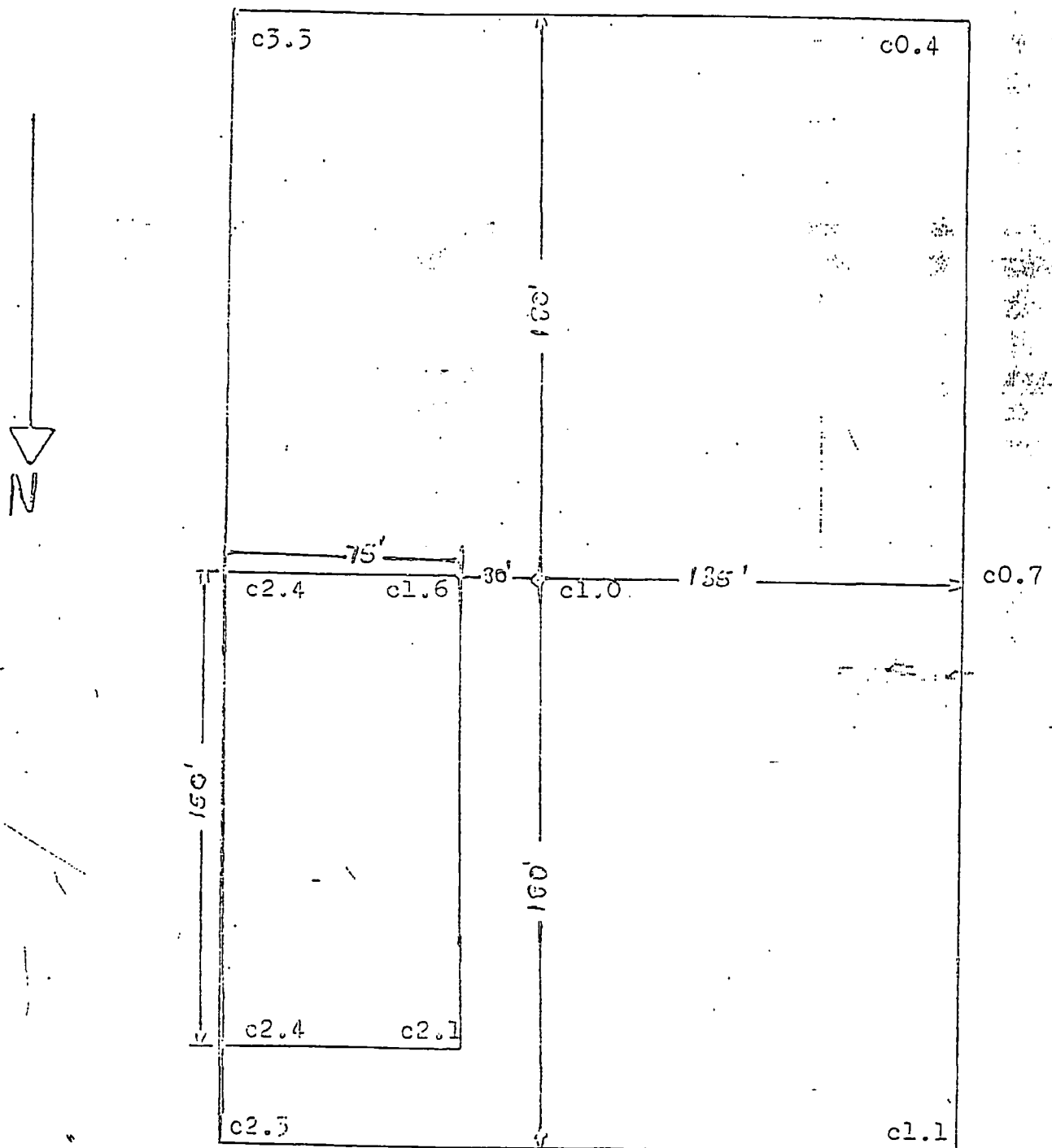
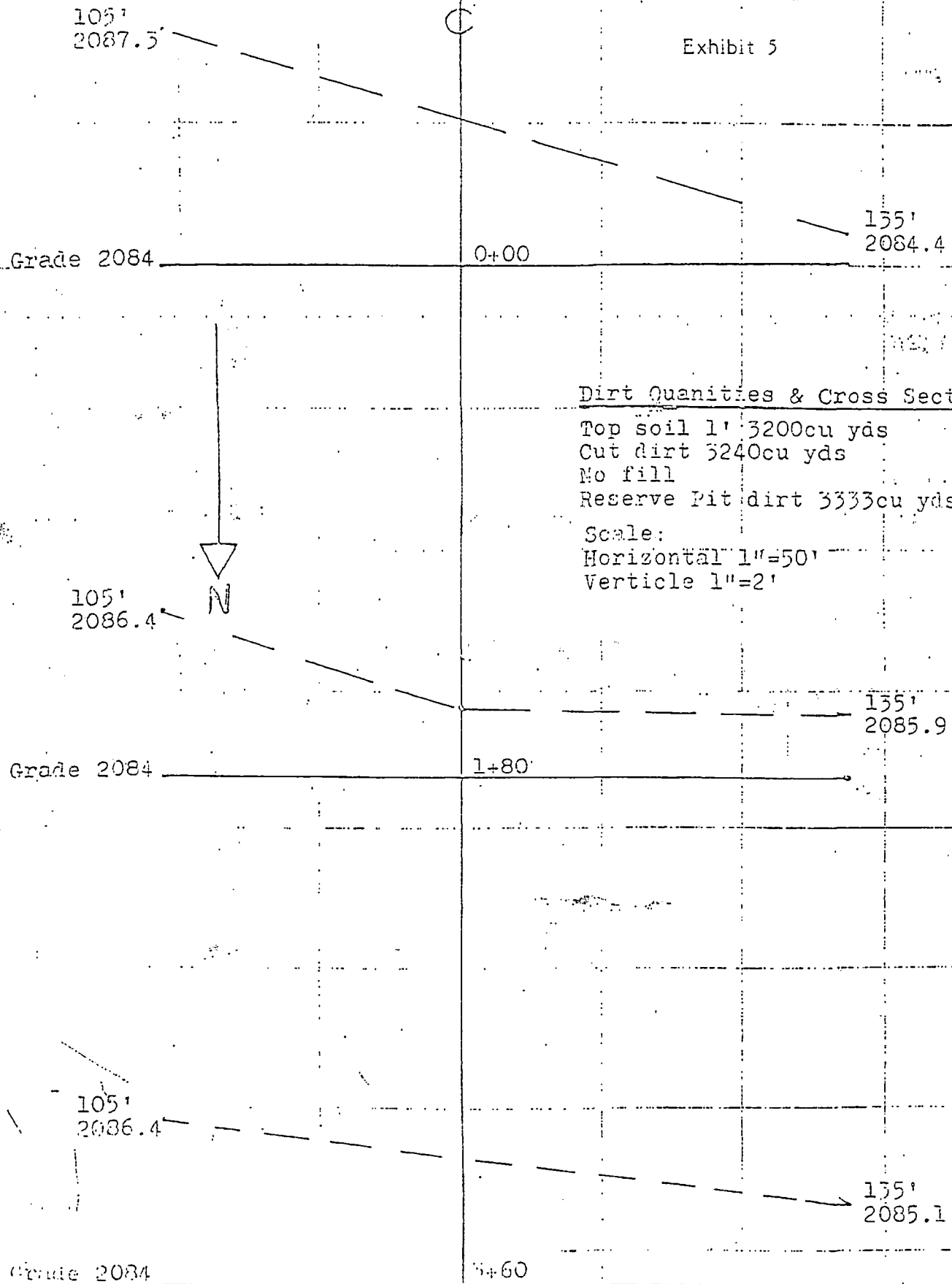


Exhibit 5



Dirt Quantities & Cross Sections:

Top soil 1' 3200cu yds

Cut dirt 3240cu yds

No fill

Reserve Pit dirt 3333cu yds

Scale:

Horizontal 1"=50'

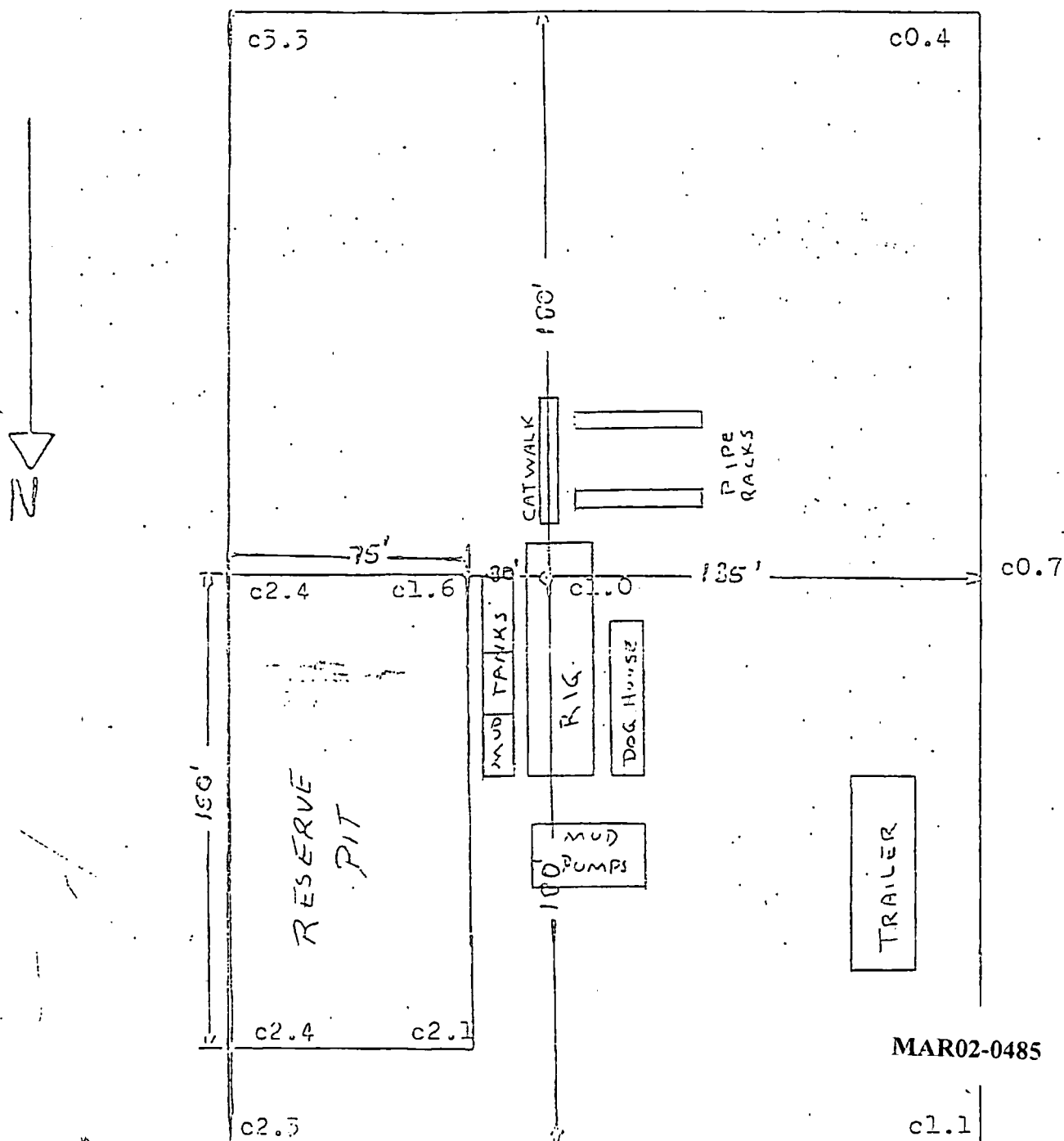
Verticle 1"=2'

MAR02-0484

MAR-484

Texas Oil & Gas Corp.
 Buckles A #1
 Typical Rig Layout

Exhibit 6



MAR02-0485

MAR-485

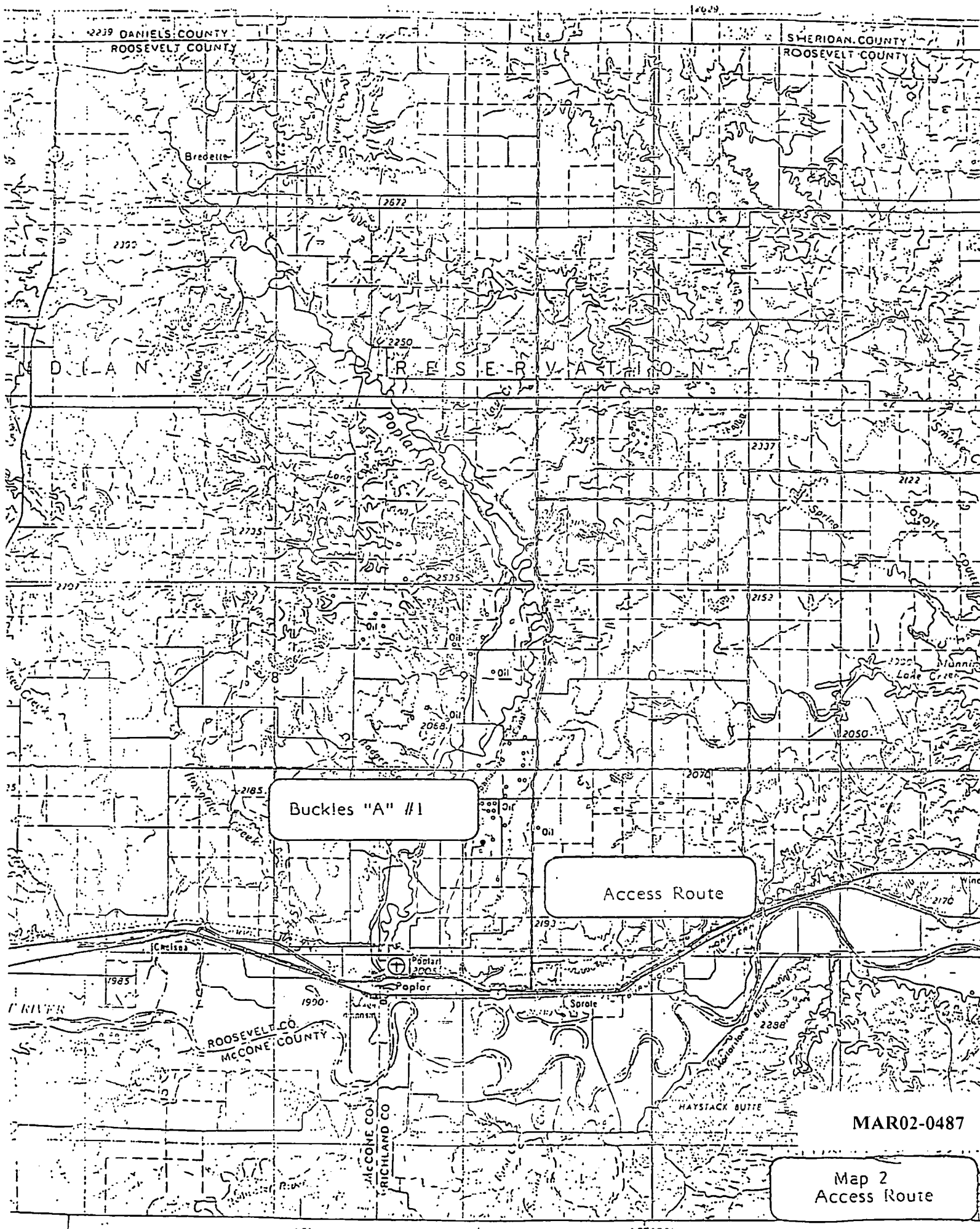
1 Mile Radius

Buckles "A" #1

Map 1
USGS Quad Sheet

MAR02-0486

MAR-486



MAR02-0487

Map 2
Access Route

MAR-487

COMPL 8-25-52
NO TESTS

MURPHY OIL
UNIT #32
COMPL 11-54
IP 41 BOPD
PARO 2 BOPD

MURPHY OIL
UNIT #10
COMPL 11-57
IP 268 BOPD
CUM 366343
BO
PARO 3 BOPD

MURPHY OIL
UNIT #20
COMPL 11-57
IP 16 BOPD
CUM 41638 BO
PARO 3 BOPD

JAN 21 1981

Billing MURPHY OIL
UNIT #104
COMPL 1958
IP 221 BOPD
CUM 344,958 BO
PARO 16 BOPD

MURPHY OIL
UNIT #22
COMPL 1955
IP 181 BOPD
CUM 24694 BO
PARO 9 BOPD

Buckles "A" #1

MESA 1-22 BIERS
COMPL 6-8-70
IP 516 BOPD
996 BWPD
CUM 159,999 BO + 1350166 BW
PARO 15 BO + 1160 BWPD (4-80)

JUNIPER
#1 21 POPLAR
COMPL 3-80
IP 4 BOPD
100 BWPD
CUM 242 BO
SHUT-IN

TD 998' Kjr
SWD

MURPHY OIL
UNIT #55
COMPL 6-55
IP 193 BOPD
CUM 226,466 BO
PARO 6 BOPD

MURPHY OIL
UNIT #26
COMPL 8-53
IP 23 BOPD
CUM 61,779 BO
T-2 5-62
P 8 A 1965

TD 830'

MURPHY OIL
UNIT #72
P 8 A 4-56
DST MCC-REC 90' GAS
FP 15-16
SIP 2995

AMARCO RESOURCES
USA 1-27
COMPL 7-73
DST MCC-11
280' HO + GCM, 15% OIL
90' MCSW
(580-18)

NATOL SIOUX 1-26
COMPL 2-28-70
IP 20 BO + 215 BWPD
PROD TEST 3 BOPD
P 8 A 1971

T51E

MURPHY OIL
UNIT #63
COMPL 2-56
IP 34 BOPD
CUM 5097 BO
KIBBEY SD
P 8 A 1962

PARTEE-CATLIN 1
COMPL 6-13-65
TD'D IN KIBBEY
NO SPL SHOWS
NO TESTS

ALIX OIL CO
PATCH #1
COMPL 8-1952
DST MCC-REC 125' GCM
25' O+WCM
FP 10-51 SIP 2925
CORED MCC-18, SSO

EMPIRE OIL
LOCKMAN #1
P 8 A 1969
DST MCC-1 REC 300' MUD-
300 SMCS W/
FP 75-300
SIP 2974

MAR02-0488

Map 2
1 Mile Radius

MAR-488

R78N

11

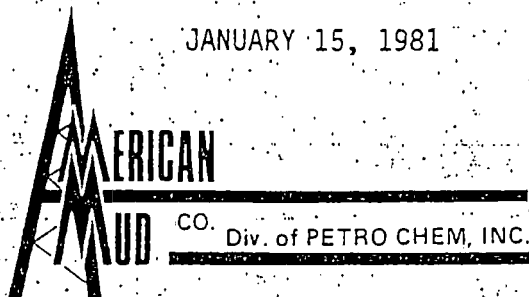
RECOMMENDED DRILLING FLUID PROGRAM

PREPARED FOR
MR. LEO HEATH
TEXAS OIL AND GAS
2705 MONTANA AVENUE, SUITE 300
BILLINGS, MONTANA 59101

6,000' MADISON TEST
BUCKLES A-NO. 1
SECTION 22, T28N, R51E
ROOSEVELT COUNTY, MONTANA

PREPARED BY
ROBERT ELLIS
TECHNICAL MANAGER
DENVER, COLORADO

JANUARY 15, 1981



MAR02-0489

MAR-489



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

CASING AND HOLE SIZE

DEPTH INTERVAL

HOLE SIZE

CASING SIZE

0' - 600'
600' - 6,000' ± TD

12-1/4"
7-7/8"

8-5/8"
5-1/2"

MAR02-0490

MAR-490



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

ESTIMATED FORMATION TOPS

Judith River	730'
Eagle	1,180'
Muddy	2,978'
Dakota	3,236'
Swift	3,694'
Rierdon	4,142'
Piper	4,401'
Amsden	4,748'
Tyler	4,880'
Otter	5,032'
Kibbey	5,194'
Kibbey Lime	5,328'
Charles	5,486'
Charles "A"	5,556'
Charles "B"	5,674'
Charles "C"	5,826'
Total Depth	6,000'

MAR02-0491

MAR-491



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

DEPTH INTERVAL

0 - 600'

FLUID TYPE: Water & Gel-Lime

Spud with water. Salt water may be used if readily available. Add American Gel (Salt Water Clay, if salt water is used) flocculated with Lime as needed for a light mud up to insure the safe running of casing. Well-site observations should determine amount of mud up necessary to safely land surface casing. A short or round trip may be beneficial at surface casing depth.

Loss of partial or whole returns may occur due to coal seams or gravel beds. A supply of Cottonseed Hulls, Pro-Fiber, Mica, and Cedar Seal should be on location.

Estimated Drilling Time: 2 Days

Estimated Interval Mud Cost: \$500.00

MAR02-0492

MAR-492



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

GENERAL

Salt Water Muds

Advantages of Salt Fluids:

1. May be used as a clear water, solids free fluid with weights to 9.9 ppg.
2. Are inhibitive fluids to prevent shale swelling.
3. Prevent hole enlargement when drilling salt sections.
4. Are usually immune to excessive viscosities caused by bentonitic sections.
5. Are not affected by common contaminants.

Maintenance:

Salt Water Clay (attapulgate) is the most stable viscosifier in a salt water system. The maximum yield from this material is gained from shear. The amount of agitation available in the mud pits will affect the amount of material required for building viscosity.

Conventional fluid loss reducing agents are not effective in these highly saline and high calcium waters. Starch is the best material to control fluid loss. Large additions will impart some viscosity. "Petro Cide 35" or "Preservative" should be used to prevent bacterial fermentation of the starch. These biocides should not be required when the fluid becomes salt saturated.

Control of pH in these fluids is not practical since they contain a high amount of calcium and magnesium. The optimum pH range is 6.5 - 7.5.

The solids content should be controlled by dilution and mechanical solids control equipment. Excess mud weights and high gels will result if solids are not controlled.

Salt water muds have a greater tendency to foam than fresh water muds. Defoamers are usually adequate to deal with this problem.

Since corrosion rates are usually high, PC-23 (sodium chromate) or Petromine (filming amine) should be used.



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

DEPTH INTERVAL

600' - 3,200'

FLUID TYPE: Salt Water

Drill out of surface casing with water and discard the contaminated fluid. Use field salt water blended with fresh water to maintain the salinity at 175,000 ppm. This salinity is necessary to stabilize the bentonitic shale sections in this interval. Other potential hole problems caused by these shales may be eliminated by adding a 50 to 60 sack treatment of American Gilsonite over a 2 day period while drilling. For maximum dispersion of the Gilsonite, 5 gallons of HME should be added per 10 sacks of material.

Salt Water Clay sweeps should be used as needed to clean the hole and eliminate tight connections or fill on trips. The yield produced from this clay is dependent upon agitation in the pits and the shear obtained in the circulating system.

Defoamers should be available if foaming occurs.

Begin a good solids control program in this interval to reduce overall mud costs. Desanders and desilters should be run continuously (except when adding Gilsonite) throughout the entire hole. The steel mud pits should be cleaned as needed to prevent the recirculation of drill solids. To aid in the settling of drill solids, Desilta, a selective flocculant, should be used as recommended by the mud engineer. The reserve pit may be utilized to allow more settling time. An adequate water supply should be available to control solids build-up.

Frequent surveys are recommended to avoid crooked hole.

Estimated Drilling Time: 3 Days

Estimated Interval Mud Cost: \$1,500.00

MAR02-0494

MAR-494



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

DEPTH INTERVAL

3,200' - 5,300'

FLUID TYPE: Salt Mud

To drill the Dakota, mud up is required and the salinity should be increased as recommended. The mud pits should be cleaned prior to mudding up for this interval. Build viscosity by shearing the Salt Water Clay and lower the filtrate with starch and preservative. American Gel (bentonite) will not yield viscosity in the high saline water, but its use is irreplaceable for particle size distribution for building a tough wall cake. If the sensitive shales have not yet stabilized (indicated by fill on trips, tight hole, and large shale pieces at the shaker) another 50 to 60 sack treatment of Gilsonite should be added. If tight hole becomes a problem and lubricity is required, Petro EP (extreme pressure) Lube is effective in reducing torque and drag.

Salt sections may be drilled in this interval which tend to wash out large sections of the hole and cause severe problems. If a salt section is encountered with a thickness of 15 foot or more, the salinity of the fluid should be increased to 300,000 ppm.

Due to water disposal in the surrounding area, a high pressure water flow may be encountered in this interval. If this situation occurs, the salinity should be increased to saturation for increased mud weight. Barite should be used only if a weight above 10.3 is used. If barite is used here, then mud weights may become too high when salinity is increased in the next interval.

If D.S.T.'s or possible producing zones are anticipated in this interval, the filtrate should be lowered to 12 cc's or less before penetrating the zone.

Attention should be given to the annular flow patterns to assure laminar flow. Laminar flow in the annulus assures proper hole cleaning and prevents hole erosion and wash out. The pump rate and yield point can be adjusted to meet this requirement.

Continue the rigid solids control practices for maintaining a low solids system for rapid penetration and to reduce overall mud costs.

Foaming may occur which should be easily handled using defoamers.

MAR02-0495

Estimated Drilling Time: 6 Days

Estimated Interval Mud Cost: \$6,000.00

MAR-495



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

DEPTH INTERVAL

5,300' - 6,000'

FLUID TYPE: Saturated Salt Water

Continue using the same products and mud maintenance practices as described previously to obtain the fluid properties recommended.

The salinity must be increased and the filtrate lowered to prevent damage to potential producing zones. This system should provide for trouble-free drilling and safe evaluation of producing zones. Drilling with higher filtrates is acceptable; however, 24 hours prior to logging, DST's or penetrating pay zones the filtrate should be lowered to 12 cc's or less.

Arbitrarily raising the viscosities for logging and DST's should be avoided unless hole conditions dictate otherwise.

Loss of circulation may be encountered in this interval due to the permeable and fractured formations. Various lost circulation materials such as Mica, Nut Shells and Cottonseed Hulls should be available if this occurs.

Use minimum viscosities to clean the hole. High viscosities induce higher ECD's (equivalent circulating densities) and increase the probability of loss of circulation. The increase in mud density due to circulating (ECD) can be computed by:

$$ECD = \frac{\text{Yield Point}}{11.7 (\text{Dia. Hole} - \text{Dia. Pipe})}$$

Again, the solids control practices are most important for reducing costs and avoiding problems.

Thinners should not be used unless high rheological properties become a problem.

Preservatives are not necessary when salt content reaches 275,000 ppm.

Estimated Drilling Time: 4 Days

Estimated Interval Mud Cost: \$6,000.00

MAR-496

MAR02-0496



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM. INC.

RECOMMENDED DRILLING FLUID PROPERTIES

<u>DEPTH INTERVAL</u>	<u>MUD WEIGHT</u>	<u>FUNNEL VISCOSITY</u>	<u>SALINITY</u>	<u>FILTRATE</u>
0' - 600'	8.7-9.0	30 - 36	Optional	N/C
600' - 3,200'	9.4-9.6	30 - 35	175,000	N/C
3,200' - 5,300'	9.7-10.0	32 - 36	250,000	12 - 17
5,300' - 6,000'	10.0-10.4	35 - 40	300,000	12 or less

MAR02-0497

MAR-497



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

COST SUMMARY

<u>DEPTH INTERVAL</u>	<u>DAYS</u>	<u>COST</u>
0' - 600'	2	\$ 500.00
600' - 3,200'	3	1,500.00
3,200' - 5,300'	6	6,000.00
5,300' - 6,000' TD	<u>4</u>	<u>6,000.00</u>
	15	\$14,000.00

MAR-498

MAR02-0498



DRILLING FLUIDS PROGRAM

CO. Div of PETRO CHEM, INC.

LOCAL AMERICAN MUD PERSONNEL

Keith Bailey	Sales Engineer	Watford City, ND	(701) 572-8000
Jim Williams	Sales Engineer	Williston, ND	(701) 572-8000
Tom Roland	Sales Engineer	Minot, ND	(701) 572-8000
Steve Sinness	Sales Engineer	Williston, ND	(701) 572-8000
Randy Vaughan	Sales Engineer	Williston, ND	(701) 572-8000
George Goetsch	Sales Engineer	Dickinson, ND	(701) 572-8000
Kyle McClurg	Sales Engineer	Great Falls, MT	(701) 572-8000
Tom Tibor	Sales Engineer	Sidney, Montana	(406) 482-3850
John Little	Sales Engineer	Dickinson, ND	(701) 225-6863
Jim Calkins	Sales Engineer	Watford City, ND	(701) 842-2503
Kevin Satermo	Asst. Area Manager	Williston, ND	(701) 572-8000
Steve Goodall	Area Manager	Williston, ND	(701) 572-8000
Richard Miller	Technical Advisor	Denver, Colorado	(303) 893-0729
Robert Ellis	Technical Manager	Denver, Colorado	(303) 893-0729
Edwina Treybig	Division Sales Rep.	Denver, Colorado	(303) 893-0729
Mike Cagle	Division Sales Rep.	Denver, Colorado	(303) 893-0729
Bill Beck	Asst. Sales Manager	Denver, Colorado	(303) 893-0729
Michael Cowan	Rocky Mtn. Sales Mgr.	Denver, Colorado	(303) 893-0729
Fred Williamson	Manager	Denver, Colorado	(303) 893-0729
Bob Hill	General Manager	Denver, Colorado	(303) 893-0729

STOCKPOINT

MAR02-0499

Williston, North Dakota

(701) 572-2427

MAR-499

Location 21-28N-51E
County Roosevelt
State Montana
Elevation _____

AMERICAN MUD COMPANY

DRILLING MUD LOG

Surface Casing 8 5/8 inch 1424 ft.
Hole Size 7 7/8 inch
Intermediate Casing _____ inch _____ ft.
Hole Size _____

Spud Date 3-16-80
Under Surface Date 3-17-80
Finish Date 3-30-80
Total Depth 5916 ft
Cost \$ _____

Fluid Co

[illegible]

MONTANA

SPILL REPORT FORM

I. Reported by:

1. Name TXO Production Corp. Phone No. 406-248-4330
2. Address 2705 Montana Avenue Suite 300
3. Date and time first noted 7:00 p.m. 1-16-82
4. Other information _____
5. Date and time of report 9:00 a.m. 1-17-82

II. Location:

1. Stream or watercourse 3 miles west to Poplar River
2. Town Poplar, 6 mi. SW County Roosevelt
3. Landmark _____
4. Legal description (Township, Range, Section, Tract) Buckles "A" #1, NE NW Sec. 22, T28N, R51E

III. Pollutant:

1. Pollutant material crude oil Amount est. 90 bbls
2. Area or miles affected inside tank battery dike
3. Describe effects (color, slick, dead or dying fish, etc.)
None

IV. Responsibility:

1. Person or entity: Name Leo A. Heath, Drilling & Production Manager,
2. Address TXO Production Corp. 2705 Montana Avenue Suite 300 Billings, MT
3. Phone No. 406-248-4330

V. Describe cleanup procedures used:

Suctioned into vacuum truck and returned to tank battery.

VI. Cause:

Frozen water line resulted in dumping of produced water to oil stock tanks, and oil overflowing tanks.

VII. Persons notified:

Tom Richmond, Montana Oil & Gas Conservation Commission, Billings, Montana
Jim Mitchell, USGS, Billings, Montana

MAR02-0501

MAR-501

TEXAS OIL & GAS CORP.
OIL SPILL REPORT RECORD

Intra-Company Data:

State Montana County Roosevelt Operation Production
Report Called in By Leo A. Heath @ 9:15 a.m. on 1-17-82
Spill Discovered By Tom Leinen (contract pumper) @ 7:00 p.m. on 1-16-82
Estimated Time of Spill 5:00 p.m. to 7:00 p.m. 1-16-82
How Did Spill Occur? (Corrosion leak, stuffing box leak, broken flow line, etc.)
Frozen water dump line resulted in overflow of oil stock tanks.

Can Material Get into a Waterway? No Did Spill Get in Waterway? No
Name of Waterway N/A

Notification Data:

Geographic Location of Spill NE NW Sec. 22-T28N-R51E MPM

Amount of Spill 90 bbls oil Basis estimated
Amount Recovered 85 bbls oil How Recovered vacuum truck
Nature of Spill (Substance) crude oil
Distance to Waterway (Name of tributary and its flow designation) 3 miles west to Poplar River, flowing southerly
Status of Containment (Give details of containment and cleanup procedure used.) Completely contained inside tank battery dike.

NOTIFICATION LIST

Name of Agency (Abbrev)	Location of Agency	Person Notifying	Time and Date of Notification	Person Contacted
USGS	Billings, MT	L.A. Heath	9:15 a.m. 1-17-82	Jim Mitchell
MT O&GCC	Billings, MT	L.A. Heath	9:00 a.m. 1-17-82	Tom Richmond

Date 1-18-82

Report Prepared by Leo A. Heath

MAR 502

MAR02-0502

To: District Engineer
U.S. Geological Survey
P.O. Box 2550
Billings, MT 59103

From: TXO Production Corp.
2705 Montana Avenue Suite 300
Billings, MT 59101

Subject: Pollution Report

Spill X Discharge _____ Blowout _____ Accident _____ Fire or
Explosion _____

1. Specific Nature and Cause of Incident

Frozen water line resulted in dumping of produced water to oil stock tanks, and oil overflowing tanks.

2. Location of Incident Buckles "A" #1 Contract # 14-20-0256-5066
NE NW Sec. 22, T28N, R51E, Roosevelt County, Montana

3. Description of Resultant Damage and Volume of Pollutant Discharged
Est. 90 bbls crude oil contained within tank battery dike with no resultant damage.

4. Date and Time of Occurrence 5:00 p.m. to 7:00 p.m. 1-16-82

5. Length of Time Required to Control Incident or Contain Pollutants
Immediately controlled by well shut-in.

6. Action Taken to Prevent Recurrence
Insulate above ground section of water dump line to prevent freezing.

7. Measures Taken to Clean Up Pollutants
Suctioned into vacuum truck and returned to tank battery.

8. The make or manufacturer, size, working and test pressures, date of installation, type of use, physical damage, etc., of any equipment causing or directly involved with the incident

N/A

9. Other Federal or State Agencies Notified of Incident

Montana Oil & Gas Conservation Commission, Billings, Montana

Signature Leo A. Heath Date 1-18-82

Title Drilling and Production Manager

MAR-503

MAR02-0503

MONTANA

SPILL REPORT FORM

I. Reported by:

1. Name TXO PRODUCTION CORPERATION Phone No. 701-572-3963
2. Address P.O. BOX 1165, WILLISTON, ND 58801
3. Date and time first noted 7:15 a.m. on 10-19-82
4. Other information _____
5. Date and time of report 9:00 a.m. on 10-19-82

II. Location:

1. Stream or watercourse 3 MILES WEST TO POPLAR RIVER
2. Town POPLAR, 6 MI. SW County ROOSEVELT
3. Landmark _____
4. Legal description (Township, Range, Section, Tract) BUCKLES "A" #1, NE NW SEC. 22, T28N, R51E

III. Pollutant:

1. Pollutant material CRUDE OIL Amount EST. 200 BBLs
2. Area or miles affected INSIDE TANK BATTERY DIKE
3. Describe effects (color, slick, dead or dying fish, etc.) NONE

IV. Responsibility:

1. Person or entity: Name T. CROFT *T. Croft*
2. Address P.O. BOX 1165, WILLISTON, ND 58801
3. Phone No. 701-572-3963

V. Describe cleanup procedures used:

SUCTIONED INTO VACUUM TRUCK AND RETURNED TO TANK BATTERY.

VI. Cause:

STUCK VALVE RESULTED IN DUMPING OF PRODUCED WATER TO OIL STOCK TANKS, AND OIL OVERFLOWING TANKS.

VII. Persons notified:

TOM RICHMOND, MONTANA OIL & GAS CONSERVATION COMMISSION, BILLINGS, MT
KATHY GROOMS, USGS, BILLINGS, MT
WARREN KORINEK, MINERALS MANAGEMENT, BILLINGS, MT

MAR-504

MAR02-0504

To: District Engineer
U.S. Geological Survey
P.O. BOX 2550
BILLINGS, MT 59103

From: TXO PRODUCTION CORP.
P.O. BOX 1165
WILLISTON, ND 58801
Subject: Pollution Report

Spill X Discharge _____ Blowout _____ Accident _____ Fire or
Explosion _____

1. Specific Nature and Cause of Incident

STUCK VALVE RESULTED IN DUMPING OF PRODUCED WATER TO OIL STOCK TANK, AND OIL OVERFLOWING TANKS.

2. Location of Incident BUCKLES "A" #1, CONTRACT # 14-20-0256-5066
NE WN SEC. 22, T28N, R51E, ROOSEVELT COUNTY, MONTANA.

3. Description of Resultant Damage and Volume of Pollutant Discharged
EST. 200 BBLs CRUDE OIL CONTAINED WITHIN TANK BATTERY DIKE WITH NO RESULTANT DAMAGE.

4. Date and Time of Occurrence 4:15 am to 7:15 am on 10-19-82

5. Length of Time Required to Control Incident or Contain Pollutants
IMMEDIATELY CONTROLLED BY WELL SHUT-IN.

6. Action Taken to Prevent Recurrence
REPLACED VALVE.

7. Measures Taken to Clean Up Pollutants

SUCTIONED INTO VACUUM TRUCK AND RETURNED TO TANK BATTERY.

8. The make or manufacturer, size, working and test pressures, date of installation, type of use, physical damage, etc., of any equipment causing or directly involved with the incident

N/A

9. Other Federal or State Agencies Notified of Incident

MONTANA OIL & GAS CONSERVATION COMMISSION, BILLINGS, MONTANA

Signature T. C. [Signature] Date 10-19-82

Title PRODUCTION SUPT.

MAR02-0505

MAR-505

TEXAS OIL & GAS CORP.
OIL SPILL REPORT RECORD

Intra-Company Data:

State MONTANA County ROOSEVELT Operation PRODUCTIONReport Called in By T. CROFT @ 9:00 am on 10-19-82Spill Discovered By TOM LEINEN (CONTRACT PUMPER) @ 7:15 am on 10-19-82Estimated Time of Spill 4:15 am to 7:15 am on 10-19-82

How Did Spill Occur? (Corrosion leak, stuffing box leak, broken flow line, etc.) ..

STUCK VALVE RESULTED IN OVERFLOW OF OIL STOCK TANK.Can Material Get into a Waterway? NO Did Spill Get in Waterway? NOName of Waterway NA

Notification Data:

Geographic Location of Spill NE NW SEC. 22 T28N R51E MPMAmount of Spill 200 BBLs OIL Basis EST.Amount Recovered 190 BBLs OIL How Recovered VACUUM TRUCKNature of Spill (Substance) CRUDE OIL

Distance to Waterway (Name of tributary and its flow designation) _____

3 MILES WEST TO POPLAR RIVER, FLOWING SOUTHERLY

Status of Containment (Give details of containment and cleanup procedure used.) _____

COMPLETELY CONTAINED INSIDE TANK BATTERY DIKE.

NOTIFICATION LIST

MAR02-0506

Name of Agency (Abbrev)	Location of Agency	Person Notifying	Time and Date of Notification	Person Contacted
MINERALS MGMT	BILLINGS, MT	T. CROFT	8:00 am 10-20-82	WARREN KORINEK
USGS	BILLINGS, MT	T. CROFT	8:50 am 10-19-82	KATHY GROOMS
MT O & GCC Date <u>10-20-82</u>	BILLINGS, MT	T. CROFT	9:05 am 10-19-82	TOM RICHMOND

Report Prepared by T. Croft

T. CROFT

MAR-506

COMPANY TEXAS OIL & GAS
CORPORATION

WELL BUCKLES #A-1

TEST NO. 1

COUNTY

ROOSEVELT

STATE

MONTAN

JOHNSTON-MACCO

Schlumberger

technical report

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

APR 28 1981

MAR02-0507

FIELD REPORT # 34352 E

MAR-507

----- WELL IDENTIFICATION -----

COMPANY:	TEXAS OIL & GAS CORPORATION	CUSTOMER:	SAME
	2705 MONTANA AVE.; SUITE 300		
	BILLINGS, MT. 59101		
WELL:	BUCKLES #A-1	LOCATION:	-
TEST INTERVAL:	5780' TO 5840'	FIELD:	POPLOR
TEST NO:	1	TEST DATE:	4-15-81
COUNTY:	ROOSEVELT	STATE:	MONTANA
TECHNICIAN:	ENNO (WILLISTON)	TEST APPROVED BY:	MR. MICHAEL B. WALEN

----- EQUIPMENT AND HOLE DATA -----

TEST TYPE:	M.F.E. OPEN HOLE	DRILL PIPE LENGTH:	5233	FT.
ELEVATION:	2097	DRILL PIPE I.D.:	-	IN.
TOTAL DEPTH:	5840	DRILL COLLAR LENGTH:	511	FT.
MAIN HOLE/CASING SIZE:	7 7/8	DRILL COLLAR I.D.:	-	IN.
RAT HOLE/LINER SIZE:	-	PACKER DEPTHS:	5776 & 5780	FT.
FORMATION TESTED:	CHARLES C		&	FT.
NET PROD. INTERVAL:	22	FT. DEPTHS REF. TO:	KELLY BUSHING	FT.
POROSITY:	10	%		

----- TEST TOOL CHAMBER DATA -----

SAMPLER PRESSURE:	25	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	47	FT3/BBL.
SAMPLE CHAMBER CONTENTS		
FLUID	VOLUME	MEAS. RESIST. CHLOR.
		(OHM-M) (DEG F.) (PPM)
GAS:	.1 FT.3	
OIL:	340 CC	
WATER:	1710 CC	.10 81 185000
MUD:	- CC	
FILTRATE:		
TOTAL LIQUID:	2050 CC	

----- MUD DATA -----

TYPE:	SALT WATER GEL STARCH
WEIGHT:	10.4 LB/GAL.
VISCOSITY:	42 SEC.
WATER LOSS:	14.0 CC
FLUID	RESIST TEMP CHLOR
	(OHM-M) (DEG F) (PPM)
MUD:	.29 62
FILTRATE:	.29 62 159000

----- REMARKS -----

NO. OF REPORTS REQUESTED: 5

FIELD REPORT NO. 34352E

MAR02-0508

MAR-508

----- SURFACE INFORMATION -----

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
SET PACKER	0355	-	1/8"
OPENED TOOL	0400	-	"
BLOW, 110" IN WATER	0403	-	"
CLOSED FOR INITIAL SHUT-IN	0415	-	"
FINISHED SHUT-IN	0442	-	"
RE-OPENED TOOL	0445	-	"
FLUID TO SURFACE	0448	-	"
CLOSED FOR FINAL SHUT-IN	0450	-	"
FINISHED SHUT-IN	0551	-	"
PULLED PACKER LOOSE	0552	-	"

CUSHION TYPE: -	- FT	- PSIG	15/16 IN. BOTTOM CHOKE
-----------------	------	--------	------------------------

----- RECOVERY INFORMATION -----

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
WATER & GAS CUT MUD	5840	-	-	70	30			.10	81	185000

FIELD REPORT NO. 34352E

MAR02-0509

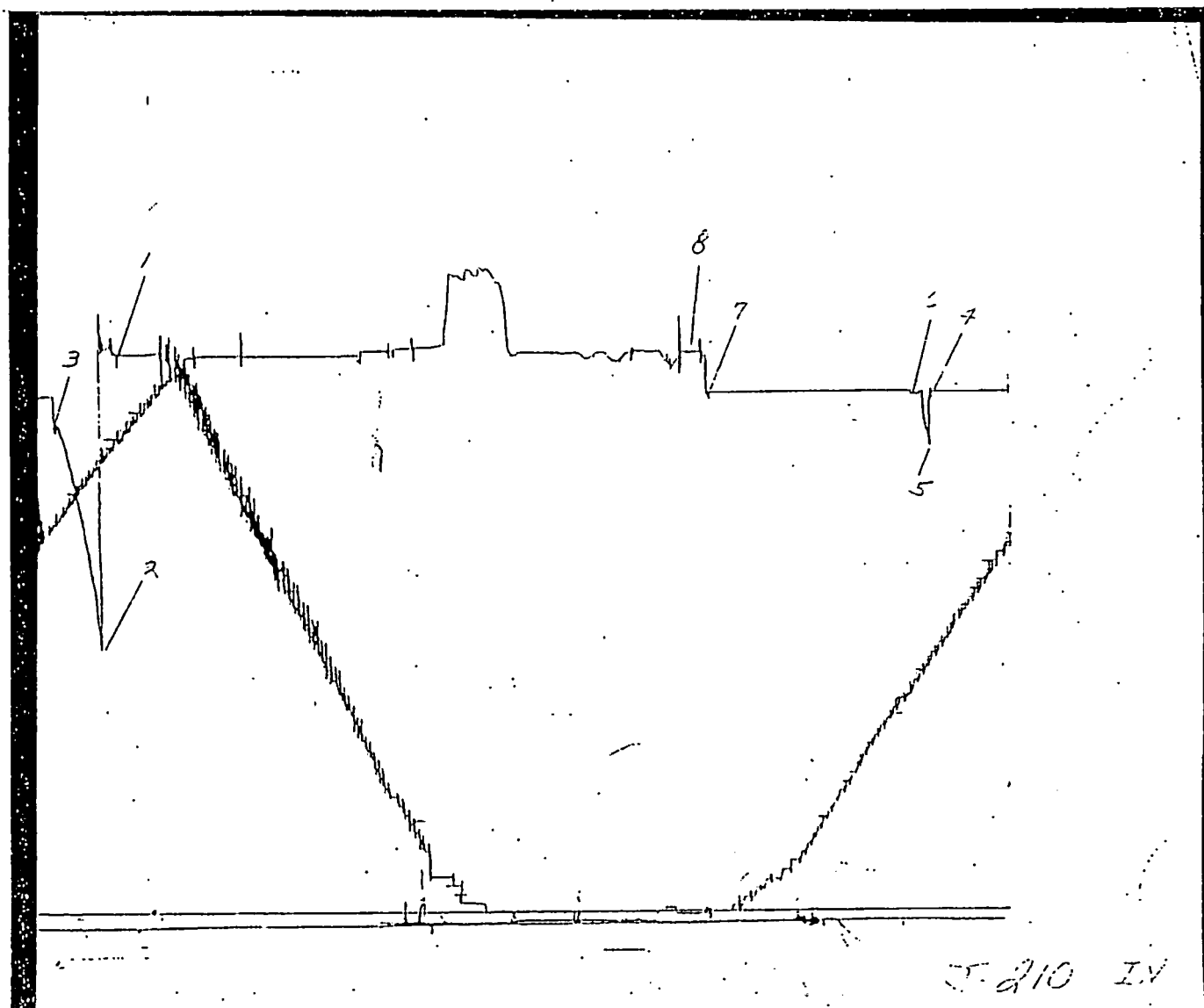
MAR-509

FIELD REPORT NO.: 34352 E

CAPACITY: 4700#

INSTRUMENT NO.: J-210

NUMBER OF REPORTS: 5



MAR-510

MAR02-0510

PRESSURE LOG

FIELD REPORT NO. 34352E

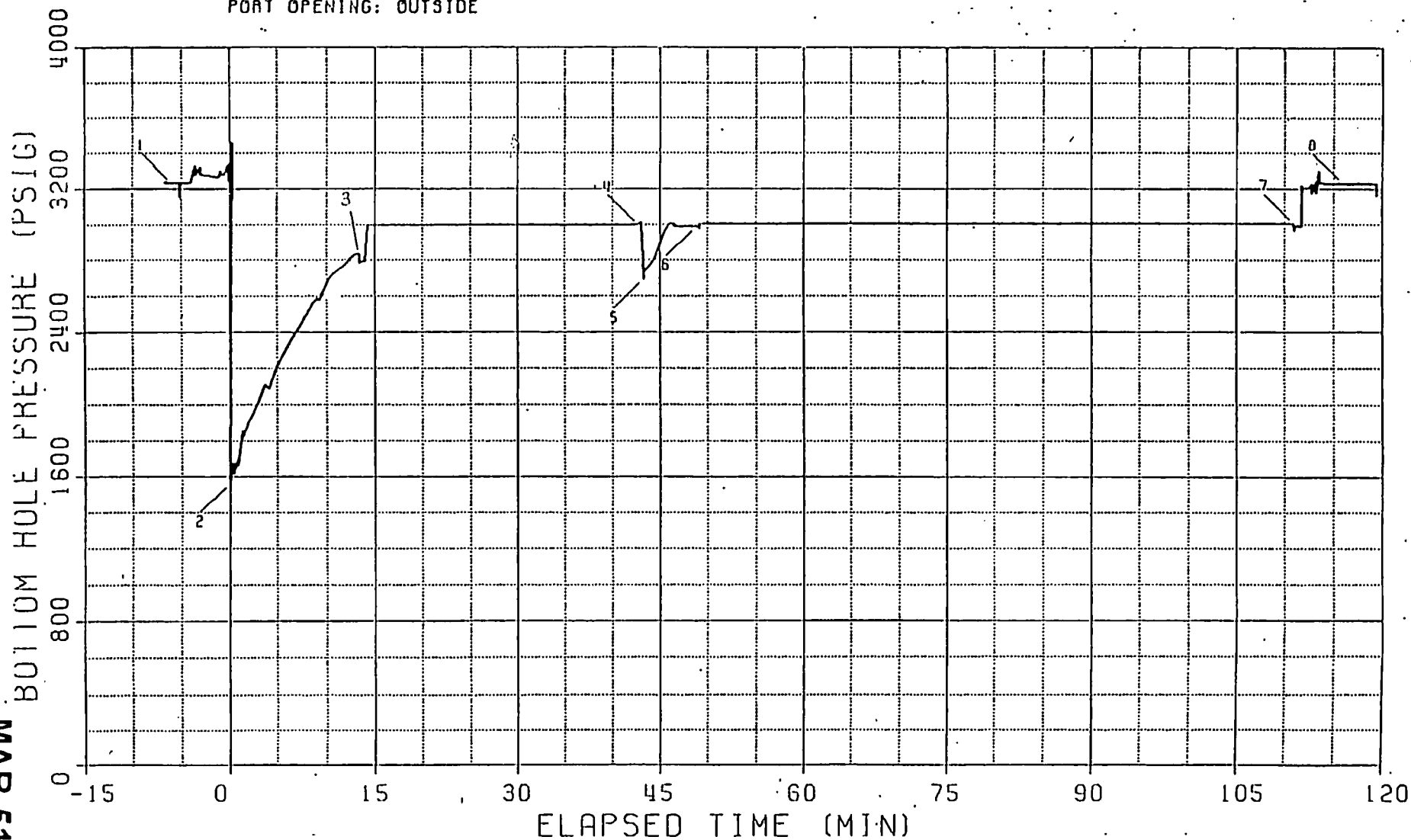
INSTRUMENT:

NUMBER: J-210

CAPACITY: 4700 PSI

DEPTH: 5801 FT

PORT OPENING: OUTSIDE



MAR02-0511

MAR-511

BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-210
PORT OPENING: OUTSIDE

CAPACITY (PSI): 4700
BOTTOM HOLE TEMP (F): 240

DEPTH (FT): 5801

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3235	-6.1
START FLOW	2	1570	0.0
END FLOW & START SHUT-IN	3	2837	13.4
END SHUT-IN	4	3000	42.7
START FLOW	5	2697	43.3
END FLOW & START SHUT-IN	6	2990	48.8
END SHUT-IN	7	3007	110.9
HYDROSTATIC MUD	8	3232	116.0

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	13.4	13.4	1570	2837
2	43.3	48.8	5.5	2697	2990

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	13.4	42.7	29.2	2837	3000	2837	13.4
2	48.8	110.9	62.1	2990	3007	2990	18.9

MAR-512

MAR02-0512

FIELD REPORT NO. 34352E
INSTRUMENT NO. J-210

FIELD REPORT NO. 34352E
INSTRUMENT NO. J-210TEST PHASE : FLOW PERIOD # 1

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	1570
5.0	5.0	2218
10.0	10.0	2671
13.4	13.4	2837

TEST PHASE : SHUT-IN PERIOD # 1

1. FINAL FLOW PRESSURE ["P "] = 2837 PSIG
WF
2. PRODUCING TIME ["T "] = 13.4 MIN
P

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P "] (PSIG)	LOG [(T +DT)/DT] P	DELTA PRESSURE [P - P] WS WF
13.4	0.0	2837		0
14.4	1.0	2999	1.160	161
15.4	2.0	2999	0.888	162
16.5	3.0	2999	0.739	162
17.5	4.0	2999	0.640	162
18.5	5.0	2999	0.567	162
19.5	6.0	2999	0.511	162
20.5	7.0	2999	0.466	162
21.5	8.0	2999	0.428	162
22.5	9.0	2999	0.397	162
23.5	10.0	2999	0.370	162
25.5	12.0	2999	0.327	162
27.5	14.0	3000	0.292	162
29.5	16.0	3000	0.265	163
31.5	18.0	3000	0.242	163
33.5	20.0	3000	0.223	163
35.5	22.0	3000	0.207	163
37.5	24.0	3000	0.193	163
39.5	26.0	3000	0.181	163
41.5	28.0	3000	0.170	163
42.7	29.2	3000	0.164	163

MAR-513

MAR02-0513

FIELD REPORT NO. 34352E
INSTRUMENT NO. J-210TEST PHASE.: FLOW PERIOD # 2

ELAPSED TIME (MIN) *****	DELTA TIME (MIN) *****	FLOWING PRESSURE (PSIG) *****
43.3	0.0	2697
48.3	5.0	2989
48.8	5.5	2990

TEST PHASE.: SHUT-IN PERIOD # 2

1. FINAL FLOW PRESSURE ["P "] = 2990 PSIG
WF
2. PRODUCING TIME ["T "] = 18.9 MIN
P

ELAPSED TIME (MIN) *****	DELTA TIME ["DT"] (MIN) *****	SHUT-IN PRESSURE ["P "] (PSIG) *****	LOG [(T +DT)/DT] P *****	DELTA PRESSURE [P - P] WS WF *****
48.8	0.0	2990		0
49.8	1.0	3007	1.299	18
50.8	2.0	3007	1.019	18
51.8	3.0	3007	0.864	18
52.8	4.0	3007	0.758	18
53.8	5.0	3007	0.680	18
54.8	6.0	3007	0.618	18
55.8	7.0	3007	0.568	18
56.8	8.0	3007	0.527	18
57.8	9.0	3007	0.492	18
58.8	10.0	3007	0.461	18
60.8	12.0	3007	0.411	18
62.8	14.0	3007	0.371	18
64.8	16.0	3007	0.339	18
66.8	18.0	3007	0.312	18
68.8	20.0	3007	0.289	18
70.8	22.0	3007	0.269	18
72.8	24.0	3007	0.252	18
74.8	26.0	3007	0.237	18
76.8	28.0	3007	0.224	18
78.8	30.0	3007	0.212	18
83.8	35.0	3007	0.188	18
88.8	40.0	3007	0.168	18
93.8	45.0	3007	0.152	18
98.8	50.0	3007	0.139	18
103.8	55.0	3007	0.128	18
108.8	60.0	3007	0.119	18
110.9	62.1	3007	0.115	18

MAR-514

MAR02-0514

GEOLOGY INFORMATION

NAME: Buckles "A" #1

LOCATION: Section 22 - T28N - R51E Roosevelt Co., MT

1. Field Name: EAST Poplar

2. Surface Formation:

3. Formation Tops:

Judith River - 730

EAGLE - 1180

Muddy - 2978

Dakota - 3236

Swift - 3694

Pierdon - 4142

Piper - 4401

Amsden - 4748

Tyler - 4890

Otter - 5032

Kibbey sd - 5194

Kibbey Lm - 5328

Charles - 5486

Charles A - 5556

Charles B - 5674

Charles C - 5826

4. Zones at which water, gas, oil or other minerals are expected:

Judith River - brackish water

muddy - saltwater

Dakota - saltwater

Kibbey - saltwater

Charles - oil

5. Total Depth: 6000'

6. Coring, logging, testing program:

No cores

Possible DST in the Charles "C" zone

Dual laterolog - base surface log to TD

FOC-CNL-GR-CAL - HEATH Fm thru to TD

7. Abnormal Conditions: None

8. Oil or Gas Well: Oil-Well

9. Single or Multiple Zone: SINGLE ZONE completion

MAR02-0515

MAR-515

Buckles A#1

① Across + 50ft above + below the
High porosity ZONES

② 50ft ABOVE + BELOW the surface
casing shoe

③ Across + 50ft above + below the Judith
River BETWEEN the surface casing +
Production Casing.

④ Set 2-5 ft plug to 4' below surface
cut of CASING, Bury, + DOWOT
set MARKER.

VERBAL Approval from Don MILLER
DICKENSON BLM
(406)

on JAN. 11, 1984
@ 3.20 PM

MAR-516

MAR02-0516



TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: January 23, 1984

To: Well File

From: Howard J. Gordon

Re: Buckles "A" #1
Section 22-T28N-R51E
Roosevelt County, Montana

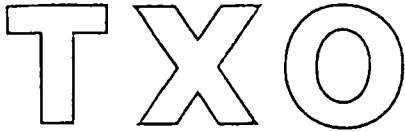
No potential zones exist above the completed Charles "C" zone in this well. The only shows reported while drilling were within the interval completed. It is therefore recommended that the above mentioned well be plugged when the current producing interval is no longer economic.


Howard J. Gordon

HJG/cjd
xc: Bill Siruta
Ron Dashner
Phil Kriz

MAR02-0517

MAR-517



TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: Feb. 24, 1984

To: R. E. Dashner

From: P. A. Kriz

Re: Recommendation to P & A the
Buckles "A" #1, Buckles "B"
#1, and the Buckles SWD wells
in Roosevelt Co., Montana

LEASE NAME: Buckles "A" #1, "B" #1, and SWD #1
LEASE NUMBER: 46529, 92287, 7839
TXO WORKING INTEREST: 100%
PRESENT PRODUCTION: Shut in
CUMULATIVE PRODUCTION: 8189
CUMULATIVE INVESTMENT: 1,524,295
CUMULATIVE NET INCOME: -47,357

The Buckles "A" #1 and "B" #1 are 100% WI, Madison oil wells in the Popular Field in Roosevelt County, Montana. The Buckles "A" #1 was spudded on April 1, 1981 and was perforated at 5796' to 5800' in the Madison-Charles "C" zone. The initial test production on May 4, 1981 was 82 BOPD and 387 BOPD. The well had a strong water drive and produced large quantities of corrosive water. The Buckles SWD #1 well was drilled on May 13, 1981 to dispose the Buckles A #1's water production into the Judith River formation. The Buckles B #1 was spudded on August 11, 1981, no economic production was found and the well was temporarily abandoned and left as a possible injection well for the Buckles A #1.

The Buckles A #1 and SWD #1 have been plagued with numerous shut ins due to leaks in pipes caused by the corrosive water production. The salt water disposal well has pressurized to the point that further injection will probably cause leaks in the corrosion fatigued casing and allow communication to the surface. Surface communication was a problem while drilling the SWD well due to its shallow depth and would prove to be both difficult and costly to repair. Furthermore, the well is an Indian lease on the Ft. Peck Indian Reservation and surface leaks could lead to legal action against TXO.

MAR02-0518

MAR-518

The Buckles A #1 was shut in on November 21, 1983 due to high discharge pressure to the SWD well. The well was producing approximately 6 BOPD and 900 BWPD when it was shut in. At the present production rate the well can not cover any additional expenditures that would come from drilling another injection well or converting the Buckles B #1 to a disposal well.

Uphole potentials were evaluated with geology and no additional prospective zones were found. Furthermore, based on the history of the producing zone, further stimulation on workover would not enhance production. At the present production decline the Buckles A #1 is only 3 months from its economic limit of 3.4 BOPD.

In view of the facts presented, it is recommended that the Buckles A #1, Buckles B #1, and the Buckles SWD #1 be plugged and abandoned. The cost for plugging the wells would be approximately \$53,400. The salvage value that is expected to be recovered is approximately \$65,300.

Please review and advise on the plugging of the Buckles A #1, B #1, and SWD #1 wells.

PAK/ja

PAK
P. A. K.

MAR02-0519

MAR-519

GAS PRODUCTION RECORD

BUCKLES "A" #1

TXO-82

State	Montana	Field	East Poplar
County	Roosevelt	Pool	

Month	Gas Production	Cumulative Gas Production	Condensate Production	Cumulative Condensate Production	Gas - Liquid Ratio	Shut-in Pressure		Test Date	H St
						Surface	Bottom Hole		
Cumulative									
Jan. 81				Daily					
Feb.									
Mar.									
Apr.									
May			1250	1250					
Jun.			449	1699					
Jul.			908	2607					
Aug.			610	3217					
Sep.			520	3737					
Oct.			500	4237					
Nov.			394	4631					
Dec.			384	5015					
Total									
Jan. 82			424	5439					
Feb.			0	5439					
Mar.			19	5508					
Apr.			30 367	5875	12.2				
May			11 1490	7365	13.5				
Jun.			0	7365					
Jul.			0	7365					
Aug.			0	7365					
Sep.			9 328	7693	36.4				
Oct.			18 197	7890	10.9				
Nov.			1 18	7908	18				
Dec.			21 280	8188	13.3				
Total			1444						
Jan. 82			0	6459					
Feb.			0	6459					
Mar.			0	6459					
Apr.			17 351	6810	20.6				
May			0	6810					
Jun.			0	6810					
Jul.			21 483	7293	23				
Aug.			22 248	7541	11.3				
Sep.			30 304	7845	10.1				
Oct.			31 261	8106	8.4				
Nov.	13		13 83	8189	6.4				
Dec.									
Total									
Jan.									
Feb.									
Mar.									
Apr.									
May									
Jun.									
Jul.									
Aug.									
Sep.									
Oct.									
Nov.									
Dec.									
Total									

Mistake!

✓ →

New Line

MAR02-0520

MAR-520

ES "A" #

Texas Oil & Gas Corp.

BEC No. _____ Lease No. _____
Operator TXO PRODUCTION
Lease - Well Buckles "A" #1
Zone _____
Field East Poplar
County Roosevelt State Montana
W.L. 100% N.L. 83.75%

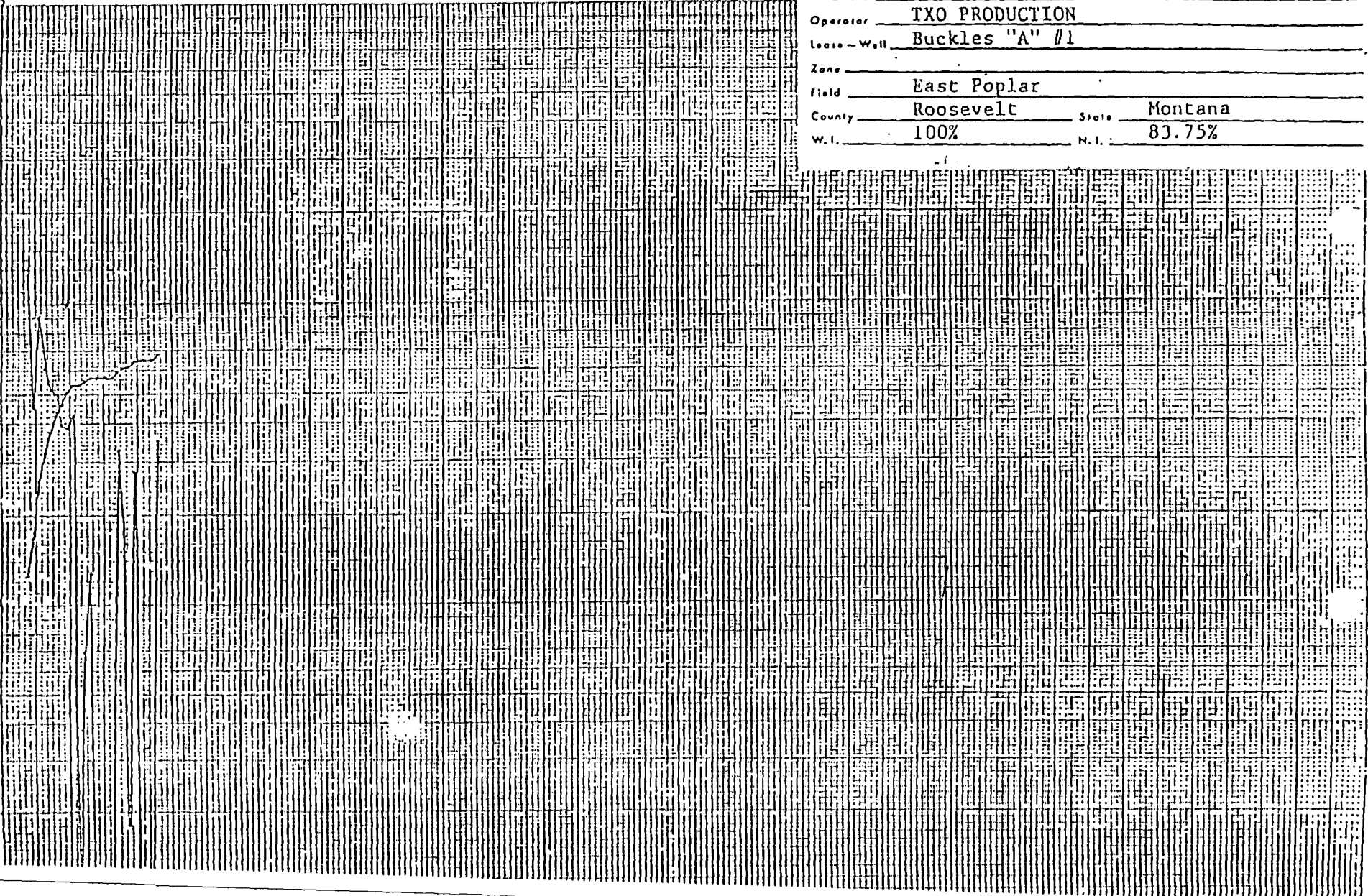
0.00

MAR02-0521

0.00

Hourly Gas Prod. - MCF
Monthly Oil or Cond. Prod. - Bbls.

MAR-521





TEXAS OIL & GAS CORP.

DENVER DISTRICT

LEASE BUCKLES "A" WELL No. 1
SECTION 22 T 28N R 51E
COUNTY ROOSEVELT STATE MT.
GL. 2085 KB. 2097

← 8 7/8" @ 1220'

Production Casing: Size 5 1/2" Grades K-55
Wt. 17 1/2 lbs./ft. Set at 5933 w/ 560 SPS.

20 jts - 17#
102 jts - 15.5#

Tubing size: 2 7/8" wt. 6.5 Length 5670 Grade J-55
size: _____ wt. _____ Length _____ Grade _____

← Packer type: MODEL "F" w/T.P. ID Depth 5610

5670'

SURFACE CMT JOB REQUIRED TWO(?) ADDITIONAL
CMT JOBS DOWN BACK SIDE TO STOP WATER FLOW

← DV Tool @ 5200'

← Perforations 5796 - 5800 No. Holes 17 Size _____
Formation CHALKS "C"

← P.B.T.D. 5802

← Drillers T.D. 5937

MAR02-0522

MAR-522

PLUGGING PROCEDURE

- 1.) N.D. TREE
- 2.) MIRR WIRELINE UNIT
- 3.) SET PUMP THROUGH PLUG IN 'F' NIPPLE IN TUBING
- 4.) SET UP BOP
- 5.) MIRR WORKOVER RIG
- 6.) SQUEEZE 150 SXS OF CEMENT INTO PERFORATIONS
- 7.) IF THE 150 SXS CANNOT ALL BE SQUEEZED BELOW PACKER, STING OUT OF PACKER AND PUMP REMAINING CEMENT ON TOP OF PACKER.
- 8.) IF THE FIRST 150 SXS SQUEEZE JOB IS COMPLETELY PUMPED OFF, STING OUT OF PACKER AND SPOT 10 SXS OF CEMENT ON THE PACKER.
- 9.) TOOH W/ 2 7/8" TUBING
- 10.) CUT 5 1/2" CASING @ 1250' AND TOOH W/ 5 1/2" CASING
- 11.) TIEH W/ 2 7/8" TUBING AND SPOT 40 SXS CEMENT FROM 1270' TO 1170'
- 12.) SPOT 10 SXS CEMENT @ SURFACE
- 13.) CUT CASING 4 FEET BELOW SURFACE
- 14.) WELD CAP, BURY, AND DO NOT LEAVE DRY HOLE-MARKER.
- 15.) TRANSFER TUBULARS AND SURFACE EQUIPMENT TO RAYMOND YARD.

PLUGGING COST

RIG	\$6,000
BOP	\$500
TRUCKING	\$2,000
WIRELING	\$4,000
TOOLS	\$2,000
CEMENT JOB	\$5,000
SUPERVISION	\$2,500
ROUSTABOUT CREW	\$2,500
RECONTOURING, RESEEDING, + OTHER DIRT WORK	\$2,500
<u>TOTAL PLUGGING COST</u>	<u>\$27,000</u>

42-381 10 SHEETS 1 SQUARE
42-382 100 SHEETS 1 SQUARE
42-383 100 SHEETS 1 SQUARE
42-384 100 SHEETS 1 SQUARE

BUCKLES "A" #1

Roosevelt County
MONTANASALVAGE VALUE

CASING HEAD

8 $\frac{5}{8}$ " x 5 $\frac{1}{2}$ " - 3000#

TUBING HEAD

'GULFECO' 11" - 3000 x 7 $\frac{1}{16}$ "
- 5000 x 2 $\frac{3}{8}$ " TYPE DMHC

HEATER TREATER

'NELCO' 6' x 20' VERT. TREATER

STOCK TANKS

4 - 'EMPIRE' 400 BBL, 12' x 20' I.P.
@ \$1600 apiece

CIRCULATING PUMPS

'ROPER' TYPE 1 GEAR PUMP
MOD 242PL w/2hp motor

'DATON' 5HP electric motor

TOTAL SALVAGE VALUE

\$ 19,110

[7X0 W I = 100%]

MAR02-0525

* THE PRODUCTION CASING & TUBING WERE NOT
SALVAGED, BECAUSE THEY ARE HIGHLY CORRODED
FROM THE CORROSIVE WATER PRODUCTION.

MAR-525

42-381 30 SHEETS 1 SQUARE
42-382 100 SHEETS 1 SQUARE
42-383 300 SHEETS 1 SQUARE

NATIONAL

Buckles A #1

① Across + 50 ft above + below the
high porosity zones

② 50 ft above + below the surface
casing? slope? water? material?

③ Across + 50 ft above + below the Judith
River between the surface casing +
production casing. 25'

④ Set 25 ft plug to 4' below surface
cut of CASINO, Burg, + DOWOT
set MARKER.

VERBAL Approval from Don Miller
A Miles City BLM

(406)

on JAN. 11, 1984
@ 3.20 PM

3:00 701-225-9148
406-232-4331

MAR02-0526

MAR-526

5 inbetween prod csy & surf csy

15 @ surf

35 ontop pkr

25 into per

ca 50' in & out

miles C.

MAR02-0527

MAR-527

Buckles "A" # 1

9-9-83	Well produced	10	80	\$	1400	BW	in	24	hrs.	
9-10-83	Well produced	8	80	\$	800	BW	in	12	hrs.	Repair pipe on disposa
9-11-83	"	12	80		1400	BW		24	hrs.	
9-12-83	"	10	"		"			"		oil field maint
9-13-83		13			1400			24		#186
9-14-83		11			1400			24		replace
9-15-83		10			1400			24		nipple
9-16-83		10			1400			24		back side
9-17-83		11			1400			24		of dispo
9-18-83		10			1400			24		tank
9-19-83		8			1000			18	hrs.	Power outage, back
9-20-83		10			1400			24	hrs.	
9-21-83		10			1400			24	hrs.	

42.381 50 SHEETS 3 SQUARE
42.382 100 SHEETS 3 SQUARE
42.383 200 SHEETS 3 SQUARE



PRICE /BBL

MAR-528

MAR02-0528

7-20-83 Well produced 18 BO \$ 1400 BW in 24 hrs.
 7-21-83 " " 19 BO \$ 1400 BW " "
 7-22-83 " " 23 BO \$ 1400 BW " "
 7-23-83 " " 20 " " " "
 7-24-83 " " 17 " " " "
 7-25-83 " " 13 " " " " Down on High Pressure

7-26-83 Down on High Pressure

7-27-83 " " " "

7-28-83

7-29-83 Well turned on @ 8:30 am 7-28-83

Well produced 24 BO \$ 1400 BW in 24 hrs.
 " " 10 " 800 in 10 hrs.

7-30-83 Down @ 9:00 pm 7-30-83

7-31-83 Down

8-1-83 Down

8-2-83 Down On @ 8:30 am 8-2-83.

8-3-83 Well produced 26 BO \$ 1400 BW in 24 hrs.

8-4-83 " " 16 " 1200 " "

8-5-83 " " 8 " 700 " in 12 hrs. Down @ 1:00 pm 8-5-83 12 hrs.

8-6-83 " " 3 400 " 4½ hrs.

8-7-83 Down

8-8-83 Down, Turned on @ 8:15 am 8-8-83.

8-9-83 Well produced 6 BO \$ 600 BW in 5½ hrs. Will Turn on at noon

8-10-83 Well produced 7 BO \$ 400 BW in 3¾ hrs.

8-11-83 Down

8-17-83 Produced 19 BO + 600 BW 14 HRS BACK ON

8-18-83 " 23 BO + 1400 BW 24

8-19-83 " 16 1400 24

8-20-83 " 15 1400 24

8-21-83 " 17 1400 24

8-22-83 " 12 1400 24

8-23-83 " 14 1400 24

8-24-83 " 6 600 9 VIBRATION (SIFTING SYSTEM)

8-25-83 " 10 800 14 " "

8-26-83 " 7 700 10 VIBRATION " "

8-27-83 " 10 1400 24

8-28-83 " 17 1400 24

8-29-83 " 5 600 24

8-30-83 " 19 ? 800 14 " "

8-31-83 " 5 600 8 " "

9-1-83 " 10 800 12 " "

9-2-83 " 13 1000 18 Adj low sensor. (

9-3-83 " 12 1400 24

9-4-83 " 14 1400 24

9-5-83 " 13 1400 24

9-6-83 " 10 1400 24

9-7-83 " 13 1400 24

9-8-83 " 11 1400 24

1. Well Buckles "A" #1 Contractor _____ Days _____
 Present Operations _____

11. Type of Fluid In Hole _____ Fluid Level _____ Wt. _____ ppg. _____
 Added to System _____ bbls Lost to Formation _____ bbls Total Lost _____ bbls
 Swabbed Today _____ bbls Total Swabbed _____ bbls Left to Recover _____ bbls

111. PBTD _____ TD _____ Packer@ _____ Bridge Plug@ _____
 Open Perfs _____ Formation _____

IV. Test Data: Type of Test _____
 Choke/Orifice _____ TP _____ psig CP _____ psig Rate _____

V.

From - To	Remarks
7-2-83	Replace inj. Pump. Well back on prod @ 1:00 pm 7-1-83.
	Well produced 20 BO @ 950 BW in 18 hrs.
7-3-83	" " 26 " 1390 " 24 hrs
7-4-83	" " 24 " 1490 " "
7-5-83	" " 23 " 1400 " "
7-6-83	" " 21 " 1400 " "
7-7-83	" " 12 " 800 BW. Pump was
	dn with Hi/Lo light on.
7-8/7-13	Down. Produced 10 BO while testing pump.
7-14-83	Back on 7:00 pm 7-13-83. Replaced Murdry Switch, replaced 2 timers,
	adj. press. control switch - (Western Valley, Charles \$540.45)
	15 BO @ 800 BW in 12 hrs.
7-15-83	Well produced 24 BO @ 1400 BW in 24 hrs
7-16-83	" " 17 " " "
7-17-83	" " 17 " " "
7-18-83	" " 6 " 600 BW in 12 hrs. Down on High Press.
7-19-83	" " 23 " 1400 BW in 24 hrs.

Tbg. Detail - Size _____ Wt. _____ Grade _____ No. Jts _____ Landed@ _____

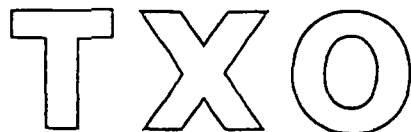
Expend	Daily	Cuml
Csg.		
Tbg.		
Wellhead		
Pkr/etc.		
Supervision		
Mud&Chem		
Logging		

Expend	Daily	Cuml
Perf.		
Log.		
Stimulation		
Rentals		
Rig		
Cnt.		
Csg. Crew		

Expend	Daily	Cuml
Water		
Misc.		
Daily		
Brought FWD		
Total Cuml		

MAR02-0530

MAR-530



TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: August 20, 1982

To: R.A. Varela

From: E.J. Quinlan, III

Re: Buckles A #1

The referenced well has been shut-in since May 9, 1982 due to a corrosion leak in the salt water disposal (SWD) line to the injection well. The well is capable of producing an average of 12 BOPD and 1400 BWP. The monthly operating expenses average \$3000.

In order to regain production, the heavy steel wall flowline from the treater to the injection pump needs to be replaced with a fiberglass line. The liners in the injection pump and pit need to be replaced and the overflow pit needs additional dirt work.

Economics:

$(364 \text{ BOPM}) (.833) (\$29/\text{BO}) - \$3000 = \$5812/\text{month}$

Repair Cost:

\$15,000 (See AFE)

Payout:

$\frac{\$15,000}{5.812/\text{mo.}} = 2.6 \text{ mo.}$

TXO WI 100%

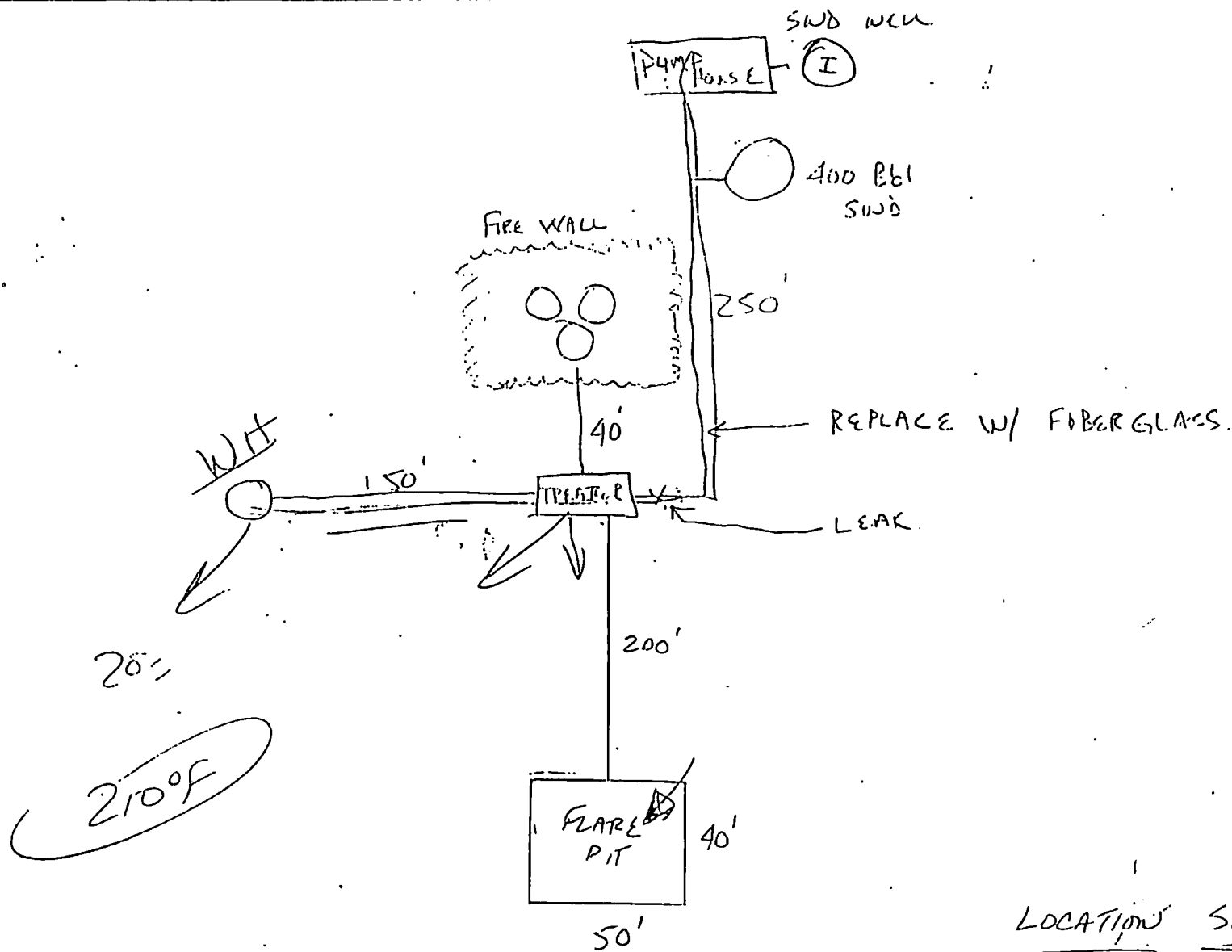
NRI 83.33%

MAR02-0531

EJQ MAR-531

MAR02-0532

MAR-532



LOCATION SKETCH

TEXAS OIL & GAS CORP.

MONTHLY SUMMARY OF PRODUCTION AND STORAGE

Rosevelt COUNTY
Mont STATE

MONTH May 1980

Buckels LEASE & WELL NO
Paplar FIELD IZON

	OIL/CONDENSATE PRODUCTION						OIL/CONDENSATE PRODUCTION						PIPELINE SALES					PRODUCTION DATA						REMARK			
	TANK NO. 88328			TANK NO. 88323			TANK NO.			TANK NO.			TANK NO.	P/L TICKET NO.	OPENING GAUGE		CLOSING GAUGE		RUNS BARRELS	CASING PRESSURE PSI	GAS PROD. MCF/D	WTR. PROD. BBL/D	OIL PROD. BBL/D		SALES LINE PRESS.	HRS. PROD.	
	FT.	IN.	BARRELS	FT.	IN.	BARRELS	FT.	IN.	BARRELS	FT.	IN.	BARRELS			FT.	IN.	FT.	IN.									
05	18'	10 1/2"	384.54	5'	3"	119.71																					
2	"	"	"	6'	6 1/2"	137.24															0		1300	17.53		24	
3	"	"	"	7'	5 1/4"	155.20															0		1300	17.96		24	7' Oil
4	"	"	"	7'	11 1/4"	165.25															0		1300	10.02		24	
5	"	"	"	8'	5 1/2"	175.65															0		1300	10.43		24	Intest
6	"	"	"	9'	4"	143.19															0		1300	12.54		24	
7	"	"	"	10'	1 1/2"	209.05															0		1300	15.41		24	Tank
8	"	"	"	11'	1"	228.34															0		1300	19.21		24	
9	11'	5 1/2"	235.43	19'	10 1/2"	334.54															0		1300	7.14		24	
10	12'	1 3/4"	249.63	18'	10 1/4"	11															0		1300	14.20		24	Water
11	12'	8 3/4"	261.32	18'	10 1/4"	11															0		1300	11.70		24	
12	13'	1 1/4"	268.84	18'	10 1/4"	11															0		1300	7.51		24	Est Bar
13																					0		0	0		0	
14																					0		0	0		0	
15																					0		0	0		0	Shut
16																					0		0	0		0	
17																					0		0	0		0	Ln
18																					0		0	0		0	
19																					0		0	0		0	Salt Water
20																					0		0	0		0	
21																					0		0	0		0	Line Troub
22																					0		0	0		0	
23																					0		0	0		0	
24																					0		0	0		0	
25																					0		0	0		0	
26																					0		0	0		0	
27																					0		0	0		0	
28																					0		0	0		0	
29																					0		0	0		0	
30																					0		0	0		0	
31																					0		0	0		0	
1	13'	1 1/4"	268.84	18'	10 1/4"	334.54															0		0	0		0	
TOTAL																							14300	14410		264	11 Days Prod

REMARKS: (Workovers, pulling jobs, any sudden changes in wells, etc.)

Imp Type & Kind

Imp Size & Length

rokes per min.

roke Length

MAR02-0533

Signature of Pump

1. Closing Gauge

2. Pipeline Runs (Gross) For Month

3. Sum of 1 and 2

4. Opening Gauge (Closing Gauge of Previous Month)

5. Gross Production (3 Minus 4)

6. Gross Production (5 Minus 6)

653

253

504

1441

MAR-533

Roosevelt
Montana

COUNTY
STATE

COPY
for Tom Leitch

TEXAS OIL & GAS CORP.

MONTHLY SUMMARY OF PRODUCTION AND STORAGE

MONTH April 1982

Buckles A #1
East Poplar

LEASE & WELL NO
FIELD IZONE

WELL NO.	OIL/CONDENSATE PRODUCTION						OIL/CONDENSATE PRODUCTION						PIPELINE SALES						PRODUCTION DATA						REMARKS	
	TANK NO. 88322			TANK NO. 88323			TANK NO. 88322			TANK NO.			TANK NO.	P/L TICKET NO.	OPENING GAUGE		CLOSING GAUGE		RUNS BARRELS	CASING PRESSURE PSI	GAS PROD. MCF/D	WTR. PROD. BBL/D	OIL PROD. BBL/D	SALES LINE PRESS.		HRS. PROD.
	FT.	IN.	BARRELS	FT.	IN.	BARRELS	FT.	IN.	BARRELS	FT.	IN.	BARRELS			FT.	IN.	FT.	IN.								
05	18	10 3/4	384.96	15	0 1/4	309.72																				
1	"	"	"	"	"	"														0		1200	—		24	Well Flowed
2	"	"	"	"	"	"														0		1200	—		24	Water No
3	"	"	"	"	"	"														0		1200	—		24	oil
4	"	"	"	"	"	"														0		1200	—		24	
5	"	"	"	"	"	"														0		1200	—		24	
6	"	"	"	"	"	"														0		1200	—		24	
7	"	"	"	02	07	57.89														0		1200	(251.8)		24	Recycled Tank H ₂ O
8	"	"	"	03	06	76.39														0		1200	18.40		24	
9	"	"	"	04	03	91.32														0		1200	15.03		24	
10	"	"	"	05	00	106.35														0		1200	15.03		24	
11	18	02 3/4	371.59	06	01	128.06														0		1200	8.34		24	
12	"	"	"	06	10	143.09														0		1200	15.03		24	
13	"	"	"	07	08 1/4	160.21														0		1200	17.12		24	
14	"	"	"	08	05 1/4	175.65														0		1200	15.44		24	Recycled from 22 to 3
15	09	03 1/4	193.00	18	02 3/4	371.57														0		1200	16.41		24	
16	10	00 3/4	207.86	13	01 1/2	269.18							88323	G-65	18	02 3/4	13	01 1/2	102.39	0		1200	15.86		24	
17	10	10	223.32	13	01 1/2	"														0		1200	15.46		24	
18	11	09	241.70	"	"	"														0		1200	18.38		24	
19	12	07	258.41	"	"	"														0		1200	16.71		24	
20	13	01	268.43	"	"	"														0		1200	10.02		24	
21	13	10	283.46	"	"	"														0		1200	15.03		24	
22	14	07	298.48	"	"	"														0		1200	15.02		24	
23	15	06 1/2	317.69	"	"	"														0		1200	19.21		24	
24	16	01	328.55	"	"	"														0		1200	10.86		24	
25	16	10	343.59	"	"	"														0		1200	15.04		24	
26	17	03	351.95	"	"	"							88323	G-88	13	01 1/2	08	01 1/4	100.62	0		1200	8.36		24	
27	18	00	366.99	02	04	52.87							88323	G-89	08	01 1/4	02	04	115.69	0		1200	15.04		24	
28	18	08 1/4	380.78	"	"	"														0		1200	13.79		24	
29	18	10 1/2	384.54	03	09 1/4	81.72														0		1200	32.61		24	
				05	00	106.35														0		1200	24.63		24	
	18	10 1/2	384.54	05	08	119.71														0		1200	13.36		24	
																						36,000	128.35		720	30 days

MAR-534

REMARKS: (Workovers, pulling jobs, any sudden changes in wells, etc.)

Type & Kind

Size & Length

is per min.

Length

Cycle

MAR02-0534

Signature of Pumper

T. C. C.

1. Closing Gauge

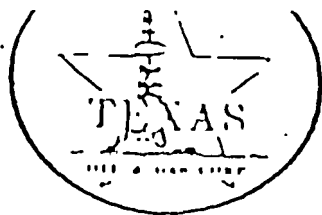
2. Pipeline Runs (Gross) For Month

3. Sum of 1 and 2

4. Opening Gauge (Closing Gauge of Previous Month)

5. Gross Production (3 Minus 4)

50 1/2 25
318.70
222.70
694.68
128.2



TEXAS OIL & GAS CORP.

DENVER DISTRICT

LEASE BUCKLES "A" WELL No. 1
SECTION 22 T 28N R 51E
COUNTY ROOSEVELT STATE MT.
GL. 2085 KB. 2097

← 8 5/8" @ 1220'

Production Casing: Size 5 1/2" Grades K-55
Wt. 17 1/2 lbs./ft. Set at 5933 w/ 560 S/S.

Tubing size: 2 7/8" wt. 6.5 length 5670 Grade J-
size: _____ wt. _____ length _____ Grade _____

← Packer type: MODEL "F" w/T.P. ID _____ Depth 5610

SURFACE CMT JOB REQUIRED. TWO(?) ADDITIONAL
CMT JOBS DOWN BACK SIDE TO STOP WATER FLOW

Perforations 5796 - 5800 No. Holes 17 Size _____
Formation CHARLES "C"

← PBTD 5602

← Drillers T.D. 5937

MAR02-0535

MAR-535